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PERSONAL.

Mr. Alson Rogers has been appointed Borough Engineer of Warren, Pa.

Mr. F. W. Blackford, M. Am. Soc. C. E., City Engineer of Butte, Mont., has resigned.

Mr. John H. Stoltzfus has been elected Manager of the Meridian Water-Works Co., Meridian, Miss.

Mr. E. Steece has been appointed City Engineer of Burlington, Ia., to succeed Mr. S. D. Eaton.

Mr. James Warren, civil engineer, of Walkerton, Ont., has been appointed Engineer of Waterloo county, of that province.

Mr. J. T. Bogshawe has been appointed Assistant City Engineer of Winnipeg, Man., to succeed Mr. Astley, who has resigned to go to Alaska.

Mr. F. Stewart Williamson, M. Am. Soc. C. E., has removed his office from the Fidelity & Casualty Bldg., 99 Cedar St., to Exchange Court, 52 Broadway, New York city.

Mr. C. P. Smith, Mem. Mont. Soc. E., has been appointed Resident Engineer of the Great Northern Ry., in charge of construction of Cascade tunnel and approaches.

Mr. H. E. D. Merry, formerly with Messrs. Vivian & Co., Swansea, Wales, has been appointed assayer and mineralogist for the British-American Corporation, Ltd., Rossland, B. C.

Mr. Ralph Blaisdell, Auditor of the Chicago, Peoria & St. Louis R. R., with headquarters at Springfield, Ill., has been elected Secretary and Treasurer of the same to succeed Mr. C. D. Moyer.

Mr. H. C. Sargent has been elected President, Mr. Mulford W. Scudder, Vice-President, Mr. Wm. S. Welch, Secretary, and Mr. T. S. Bird, Treasurer of the Westfield Water Co., Westfield, N. J.

Mr. Elwood Mead, M. Am. Soc. C. E., has been appointed Consulting Expert in the Bureau of Irrigation by the Department of Agriculture of Wyoming. He will also retain his position as State Engineer of Wyoming.

Mr. C. E. Kimball, Vice-President of the Chicago, Peoria & St. Louis R. R., with headquarters in New York city, has been elected President. Mr. Joseph Dixon, of St. Louis, has been elected Vice-President to succeed him.

Mr. Robert G. Hart, Superintendent of the Southampton Water Works Co., Southampton, N. Y., since the construction of the works three years ago, has resigned. Mr. George Elliston has been appointed to succeed him.

Mr. Leonard C. R. Smith, civil engineer, of Astoria, has been appointed Superintendent of the water-works supplying Flushing, College Point, Whitestone and Bayside, N. Y., to succeed Mr G. A. Roullier, M. Am. Soc. C. E., resigned.

Messrs. Geo. N. Merrill & Co., civil and consulting engineers, of 292 Main St., Springfield, Mass., the notice of the forming of which partnership was made in our issue of April 14, have opened an office in the Stearn Bldg., 75 Pratt St., Hartford, Conn.

Mr. Charles A. Bauer, of Springfield; Maj. A. D. Rodgers, of Columbus, and Mr. Lewis P. Schaus, of Licking county, have been appointed by Gov. Bushnell as the State Building Commission to select a site and plans for the new State House to be built in Columbus, O., at a cost of $400,000.

Dr. Hibbert Winslow Hill, formerly Director of the Rockville Center Laboratory of the Department of Health of Brooklyn up to the time of its abolition by the consolidation of that city with New York, has recently been appointed Director of the Bacteriological Laboratory of the Health Department of Boston, Mass.

Mr. C. Kadono, formerly Chief Assistant Engineer of the Sanyo Ry. and Engineer of the government railways, of Japan, has arrived in the United States on his way to London, England, where he will assume the management of the English branch of Messrs. Okura & Co., of Japan, importers of steel rails and locomotives.

Mr. John J. Ryan, Deputy Commissioner in the Department of Public Buildings, Lighting and Supplies, of New York city, has been appointed by Mayor Van Wyck as an Aqueduct Commissioner, to succeed Mr. Peter J. Dooling, who has been in turn appointed to succeed Mr. Ryan. Mr. Charles H. Murray, Aqueduct Commissioner, has been removed.

Mr. J. Y. Mori, who has lately filled the positions of Vice-President, General Manager and Chief Engineer of the Nippon Tetsudo Kwaisha, the largest railway system of Japan, has been elected President of the company. He is a graduate of the Rennselaer Polytechnic Institute, Troy, N. Y., and has worked his way up to this position, which is said to be the choicest official position in Japan, through fine executive ability and untiring energy.

Lieut.-Col. William Ludlow, M. Am. Soc. C. E., Engineer Corps, U. S. A., who has been in charge of the U. S. Engineer Office in New York city for a year past, and who was reported in our issue of April 28 to have been appointed to the staff of Major-Gen. Miles as Chief of the Engineer Corps in the field, has been commissioned by President McKinley as a Brigadier-General, and will have charge of the engineer corps of the army for the invasion of Cuba.

Mr. John M. Toucey, F. Am. Soc. C. E., General Manager of the New York Central & Hudson River R. R., with headquarters in New York city, has resigned. Mr. Toucey, who is 70 years of age, began his railway career as a station agent on the Naugatuck R. R. about half a century ago. In 1855 he became connected with the Hudson River R. R., and seven years later was appointed Assistant Superintendent. From 1867 to 1881 he was Superintendent of the Hudson River Division of the New York Central R. R., and from 1881 to 1890 was General Superintendent of the entire system. He was appointed General Manager in 1890, and has held the office continuously since.

Mr. Frank Thomson, President of the Pennsylvania R. R., with offices in Philadelphia, was reported in our issue of April 28 to have been appointed Master of Transportation by Secretary Alger, to have charge of the movement of troops and supplies during the present war. The report, which is now denied, is said to have originated from his frequent consultations with officials of the administration in Washington. Some of our contemporaries have also stated that Mr. George R. Blanchard, Commissioner of the Joint Traffic Association, with offices in New York city, has been appointed by the Secretary of War to fill this position, with the rank of Brigadier-General. We are able to state that Mr. Blanchard has not as yet accepted the position.

Capt. William M. Black, M. Am. Soc. C. E., Engineer Commissioner of the District of Columbia; Capt. George McDerby, Capt. James L. Lusk, M. Am. Soc. C. E., West Point, N. Y.; Capt. George W. Goethals, formerly Assistant to the Chief of Engineers, Washington, D. C.; Capt. John Biddle, M. Am. Soc. C. E., Nashville, Tenn., and Capt. Hiram M. Chittenden, formerly Secretary of the Missouri River Commission, St. Louis, Mo., all of the Corps of Engineers, U. S. Army, have been promoted to be Chief Engineers, with rank of Lieutenant-Colonel. Maj. William R. Livermore, Corps of Engineers, U. S. Army, formerly Engineer of the First and Second Lighthouse Districts, also has been promoted to be Chief Engineer, with rank of Lieutenant-Colonel.

Hon. Gardiner C. Sims, M. Am. Soc. M. E., General Manager of the Armington & Sims Engine Co., Providence, R. I., has been appointed a Chief Engineer in the United States Navy, with rank of Lieutenant Commander. He learned the machinists' trade in the locomotive works of the New York Central & Hudson River R. R., at West Albany, N. Y., and spent three years as a draftsman in the engineering department of the New York Navy Yard, Brooklyn. In our issue of March 17, in the article on "The History of the Shaft Governor," we quoted a letter written by him to Prof. F. R. Hutton, M. Am. Soc. M. E. and Secretary, describing his connection with the late Mr. John C. Hoadley, of Lawrence, Mass. Mr. Sims is also a member of the American Society of Naval Engineers.

OBITUARY.

Mr. William Forrestal, contractor, of Milwaukee, Wis., died May 2, aged 48.

Mr. Charles B. Pratt, President of the Consolidated St. Ry. of Worcester, Mass., died May 10, aged 74.

Mr. J. A. Totro, mechanical engineer, Superintendent of the Western Tile Works, Beaver Falls, Pa., died May 2.

Mr. Richard H. Green, civil engineer, of Jeffersonville, Ind., died May 5, aged 75. He was twice City Engineer of that place.

Mr. Benjamin Briscoe, for many years Master Mechanic of the Detroit & Milwaukee R. R., died in Detroit, Mich., May 1, aged 86.

Mr. Charles Atwater, for several years Treasurer of the Stanley Electric Mfg. Co., of Pittsfield, Mass., died May 1, in London, England, aged 44.

Mr. Joseph Graham Maloy, civil engineer, died in Easton, Md., May 3, aged 30. He was a graduate of Madison College and the University of Virginia.

Major-Gen. Charles C. Walcutt, civil engineer, died in Omaha, Neb., May 2. He served throughout the Civil War in the Union Army, and was twice Mayor of Columbus, O.

Bvt.-Maj.-Gen. Robert F. Stockton, President of the United New Jersey R. R. & Canal Co., died at his home in Trenton, N. J., May 5, aged 66. He was a veteran of the Civil War, and from 1877 to 1880 was Controller of the Treasury of New Jersey. In 1866 he became President of the Delaware & Raritan Canal Co.

Mr. Addiston Hills, assistant to the President of the Lake Shore & Michigan Southern Ry., died in Cleveland, O., May 7. He was born at Enfield, Conn., April 6, 1807, and entered the railway service in 1837 with the Painesville & Fairfield R. R. In April, 1852, he was appointed agent at Dunkirk, N. Y., on the Erie Ry., and from 1855 to 1858 was General Freight Agent of the Cleveland, Painesville & Ashtabula R. R. and of the Cleveland, Columbus & Cincinnati R. R. In 1868 he was appointed to a similar position on the Lake Shore R. R., and held it until 1872, when he went to the Lake Shore & Michigan Southern Ry. in the same capacity. From 1881 to 1886 he was Assistant General Manager of this road, and in the latter year was appointed to the position which he held at the time of his death.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

NEW YORK ELECTRICAL SOCIETY.
May 12. Madison Square Garden, New York city. "Electrically Driven Machinery," Dr. Schuyler S. Wheeler. Secy., Geo. H. Guy, 120 Liberty St., New York city.

SOCIETY OF GAS LIGHTING.
May 12. 39 West 31st St., New York city. Secy., Fred S. Benson.

CENTRAL RAILWAY CLUB.
May 13 Buffalo, N. Y. Secy., H. D. Vought, 114 Fifth Ave., New York city.

ST. LOUIS RAILWAY CLUB.
May 13. Secy., H. H. Roberts, 511 Commercial Bldg., St. Louis, Mo.

MONTANA SOCIETY OF ENGINEERS.
May 14. Secy., Albert S. Hovey, Helena, Mont.

INDIANAPOLIS ENGINEERING CLUB.
May 14. Secy., Edson F. Folsom, Indianapolis, Ind.

TECHNICAL CLUB OF OMAHA.
May 16. Secy., J. Harry Lawrie, Omaha, Neb.

ENGINEERS' CLUB OF MINNEAPOLIS.
May 16. Secy., H. E. Smith, 1620 S. E. 4th St., Minneapolis, Minn.

ENGINEERS' AND ARCHITECTS' CLUB OF LOUISVILLE.
May 16. Secy., Jas. K. Zollinger, 16 Norton Bldg., Louisville, Ky.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.
May 17. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.

AMERICAN INSTITUTE ELECTRICAL ENGINEERS.
May 17. Election of Officers. Secy., R. W. Pope, 26 Cortlandt St., New York city.

ILLINOIS STREET RAILWAY ASSOCIATION.
May 18. Annual meeting. Secy., C. K. Minary, Springfield City R. R., Springfield, Ill.

WESTERN RAILWAY CLUB.
May 18. Secy., F. M. Whyte, 225 Dearborn St, Chicago, Ill.

BOSTON SOCIETY OF CIVIL ENGINEERS.
May 18. Secy., S. E. Tinkham, City Hall, Boston, Mass.

WESTERN FOUNDRYMEN'S ASSOCIATION.
May 18. Annual meeting. Secy., A. Sorge, Jr., 1020 Monadnock Block, Chicago, Ill.

ENGINEERS' AND ARCHITECTS' ASSOCIATION OF SOUTHERN CALIFORNIA.
May 18. Secy., Frank H. Olmstead, Los Angeles, Cal.

ENGINEERS' CLUB OF ST. LOUIS.
May 18. Secy., Richard McCulloch, St. Louis, Mo.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
May 18. Secy., C. W. Hunt, 220 West 57th St., New York city.

WESTERN SOCIETY OF ENGINEERS.
May 18. "Gaging of Streams," Wm. G. Price, and "The Use of Coke Breeze in Sewage Purification," John W. Alvord. Secy, N. L. Litten, Monadnock Block, Chicago, Ill.

SOUTHERN AND SOUTHWESTERN RAILWAY CLUB.
May 19. Secy., F. A. Charpiot, Macon, Ga.

ENGINEERS' CLUB OF CINCINNATI.
May 19. Secy., J. F. Wilson, P. O. Box 333, Cincinnati, O

NEW YORK RAILWAY CLUB.
May 19. Secy., W. W. Wheatley, 168 Montague St., Brooklyn, N. Y.

BROOKLYN ENGINEERS' CLUB.
May 19. "Interpretation of Water Analyses," G. C. Whipple. Secy., A. J. Provost, Jr., 191 Montague St., Brooklyn, N. Y.

CHICAGO ELECTRICAL ASSOCIATION.
May 20. Secy., J. R. Cravath, 825 Monadnock Block, Chicago, Ill.

THE ENGINEERS' CLUB OF PHILADELPHIA.
May 21. Secy., L. F. Rondinella, 1122 Girard St., Philadelphia, Pa.

ENGINEERS' CLUB OF COLUMBUS.
May 21. Secy., M. S. Hopkins, 14½ N. High St., Columbus, O.

CIVIL ENGINEERS' CLUB OF CLEVELAND.
May 24. Secy., Wm. H. Searles, Case Library Bldg., Cleveland, O.

ENGINEERING ASSOCIATION OF THE SOUTH.
May 26. Nashville, Tenn. Secy., C. B. Wilson, Nashville, Tenn.

CANADIAN SOCIETY OF CIVIL ENGINEERS.
May 26. Secy., C. A. McNab, 112 Mansfield St., Montreal, Can.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
May 30, June 4. Spring meeting, Niagara Falls, N. Y. Secy., Prof. F. R. Hutton, 12 W. 31st St., New York city.

TECHNICAL SOCIETY OF THE PACIFIC COAST.
June 3. Secy., O. Von Geldern, 819 Market St., San Francisco, Cal.

NATIONAL ELECTRIC LIGHT ASSOCIATION.
June 7-9. Annual meeting, Chicago, Ill. Secy., George F. Porter, 136 Liberty St., New York city.

AMERICAN FOUNDRYMEN'S ASSOCIATION.
June 7-10. Annual meeting, Cincinnati, O. Secy., John A. Penton, Buhl Block, Detroit, Mich.

OHIO STREET RAILWAY ASSOCIATION.
June 8. Annual meeting, Columbus, O. Secy., Frank J. J. Sloat, Akron, O.

NEW ENGLAND RAILROAD CLUB.
June 8. Secy., Edward L. Janes, P. O. Box 1158, Boston, Mass.

NORTHWESTERN ELECTRICAL ASSOCIATION.
June 10. Secy., Theo. R. Mercein, 511 Montgomery Bldg., Milwaukee, Wis.

ENGINEERS' CLUB OF KANSAS CITY.
June 13. Secy., F. W. Tuttle, Baird Bldg., Kansas City, Mo.

LOUISIANA ENGINEERING SOCIETY.
June 13. Secy., J. F. Coleman, 712 Union St., New Orleans, La.

DENVER SOCIETY OF CIVIL ENGINEERS.
June 14. Secy., W. B. Lawson, 36 Jacobson Bldg., Denver, Colo.
NORTHWEST RAILWAY CLUB.
June 14. Secy., T. A. Foque, Soo Line, Minneapolis, Minn.
AMERICAN WATER-WORKS ASSOCIATION.
June 14-16. Annual meeting, Buffalo, N. Y. Secy., Peter Milne, 95 William St., New York city.
MASTER CAR BUILDERS' ASSOCIATION.
June 15-17. Annual meeting, Saratoga, N. Y. Secy., Jno. W. Cloud, 974 Rookery, Chicago, Ill.
AMERICAN RAILWAY MASTER MECHANICS' ASSOCIATION.
June 20-22. Annual meeting, Saratoga, N. Y. Secy., John W. Cloud, 974 Rookery, Chicago, Ill.

NEW ENGLAND RAILROAD CLUB.—At the regular meeting of this club, held at Boston on May 10, Mr. Geo. M. Carpenter read a paper entitled "Bituminous Coal and Coal Mining, or a Trip Through a Coal Field."

ENGINEERING SOCIETY OF THE LEHIGH VALLEY.—The last meeting of this society before the summer vacation was held on May 9. The paper of the evening was on the "Manufacture of Plate Glass" by L. E. Danse.

ENGINEERS' SOCIETY OF WESTERN NEW YORK.—The regular meeting was held May 2 at the Library Building, Buffalo, N. Y. Mr. Geo. W. Rafter, of Rochester, addressed the society on "The Run-Off of the Niagara River."

NEW YORK ELECTRICAL SOCIETY.—A special meeting of this society will be held at Madison Square Garden, New York city, on the evening of May 12. Dr. Schuyler S. Wheeler will deliver an illustrated lecture on "Electrically Driven Machinery."

CHICAGO ELECTRICAL ASSOCIATION.—At the meeting on May 6 a letter was read from Mr. E. Griffin, of the General Electric Co., urging electrical engineers to offer their services to the government, as they are needed on the warships and on the coast defence works. The association voted to offer its services in a body. The regular paper for the evening was on "The Enclosed Arc Lamp," by Mr. J. M. Hollister, of the Western Electric Co.

ENGINEERS' CLUB OF ST. LOUIS.—The 472d meeting of this club was held on May 4. The president stated that an invitation had been received from the Society of Civil Engineers of France to send delegates to its 50th anniversary celebration in Paris in June. The paper by Mr. Thos. D. Miller on "The Recently Discovered Oil Field of Texas" was read by the secretary. A description of the oil district of Corsicana, analyses of the oil and statistics regarding the output were given. Prof. J. H. Kinealy then gave an illustrated talk on the subject of ventilating school buildings. Richard McCulloch, Secy.

WESTERN SOCIETY OF ENGINEERS.—The meeting on May 4 was the first one held in the new lecture room, which has much better accommodations than the library, where the meetings have hitherto been held. The discussion on fireproofing was renewed, but nothing of particular importance was brought out except the fact that the cinder concrete for floor arches, etc., used by Mr. Abbott is a much stronger material than the so-called cinder concrete used for filling in above brick or tile floor arches.

A paper on "Locomotive Water Supply" was then read by Mr. T. W. Snow, which brought out some remarks as to the saving in time which may be effected by using water under considerable head and through large pipes to supply the tender tanks. On long runs the saving may enable the schedule time to be reduced. The paper is to be printed and circulated in order to call forth further discussion.

WESTERN GAS ASSOCIATION.—The 21st annual meeting of this association will be held at Detroit, Mich., on May 18-20. The following papers will be presented: "The Enrichment of Coal Gas," George H. Harper, Altoona, Pa.; "The Use of Gas for Purposes Other than Lighting," C. W. Blodget, Brooklyn, N. Y.; "The Igniting of Gas by Static Electricity," Bankson Taylor, St. Paul, Minn.; "Recent Developments in Texas of Interest to the Gas Man," Thos. D. Miller, Dallas, Tex.; "Methods of Estimating the Values of Gas Liquors," O. O. Thwing, St. Louis, Mo.; "The Prepayment Meter," C. H. Raynor, Adrian, Mich.; "Wrinkle Department," E. H. Jenkins, Buffalo, N. Y.; "Some English Correspondence Upon Isolated Generators for Bench Firing," G. Treadway Thompson, New York city.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
May 12.	Capitol building bonds,	Prescott, Ariz.	May 5
May 12.	Constructing drive,	Philadelphia, Pa.	May 5
May 12.	Paving material, etc.,	Baltimore, Md.	May 5
May 12.	Macadamizing,	Buffalo, N. Y.	May 5
May 12.	Laying water pipe,	Boston, Mass.	May 5
	Advertised, Engineering News, May 5.		
May 12.	Pontoon work,	New York, N. Y.	May 5
May 12.	Electric light plants,	Memphis, Tenn.	May 5
May 12.	Superstructure and draw,	Boston, Mass.	May 5
May 12.	Water-works supplies,	New York, N. Y.	May 5
May 12.	School building,	Ida Grove, Ia.	Apr. 28
May 12.	Sewer pipe (50,000 ft.),	Quincy, Mass.	Apr. 28
	Advertised, Engineering News, Apr. 28.		
May 12.	Pipe sewers, (14,200 ft.),	Quincy, Mass.	Apr. 28
	Advertised, Engineering News, Apr. 28.		
May 12.	Bridge superstructure,	Millwood, O.	Apr. 21
May 12.	Court house,	Sonora, Cal.	Apr. 21
May 12.	Water pipe, etc. (21,000 ft.),	Spokane, Wash.	Apr. 21
May 12.	Bridge,	Spokane, Wash.	Apr. 21
May 12.	Sewers,	Cleveland, O.	Apr. 21
May 12.	Mortar battery,	Boston, Mass.	Apr. 14
	Advertised, Eng. News, Apr. 14 to May 5.		
May 12.	Iron bridge,	Shreveport, La.	Apr. 14
May 12.	Iron bridge (324 ft.),	Easton, Md.	Apr. 14
May 12.	Electric light plant,	Ocala, Fla.	May 5
May 13.	County bridges (3),	Cameron, Tex.	May 12
May 13.	Asphalt paving,	Utica, N. Y.	May 12
May 13.	School building,	Chicago, Ill.	May 5
May 13.	Dredging (45,500 cu.yds.),	New York	May 5
May 13.	Water pipe and castings,	Syracuse, N.Y.	May 5
	Advertised, Engineering News, May 5.		
May 14.	Bridge,	Alexandria, S. Dak.	May 5
May 14.	Water pipe and reservoir,	No. Andover, Mass.	May 5
	Advertised, Engineering News, May 5.		
May 14.	Repairing pavements, etc.,	Erie, Pa.	Apr. 14
May 14.	Keepers' dwelling,	Oswego, N. Y.	Apr. 14
	Advertised, Eng. News, Apr. 14 and 21.		
May 14.	Street bonds,	Canton, O.	Apr. 21
May 14.	Garbage disposal, etc.,	Newport News, Va.	Apr. 21
May 14.	Asphalt paving, etc.,	Cleveland, O.	Apr. 21
May 14.	Mortar battery,	Boston, Mass.	Apr. 21
	Advertised, Eng. News, Apr. 21 to May 5.		
May 14.	Improving road,	Cincinnati, O.	Apr. 21
May 14.	Macadamizing,	Monticello, Ind.	Apr. 28
May 14.	Bridge approaches (4),	Cincinnati, O.	Apr. 28
May 14.	Street repairs,	Albany, N. Y.	May 12
May 14.	Sewers,	Providence, R. I.	May 12
May 14.	Frame opera house,	Hankinson, N. Dak.	May 12
May 14.	Police station,	Chicago, Ill.	May 12
May 14.	Superstructure, etc.,	Pittsburg, Pa.	May 12
May 14.	Cement (2,150 bbls.),	Pittsburg, Pa.	May 12
May 14.	Water bonds,	Ogdensburg, N. Y.	May 12
May 14.	Improving roads,	East Haven, Conn.	May 12
May 15.	Laying water pipe, etc.,	Hallowell, Me.	Apr. 14
	Advertised, Engineering News, Apr. 14.		
May 15.	Water-works,	Rock Hill, S. C.	May 5
May 16.	Pipe sewers, etc.,	Elizabeth, N. J.	May 5
May 16.	Flag, curb, etc.,	Elizabeth, N. J.	May 5
May 16.	Brick paving,	Freeport, Pa.	May 5
	Advertised, Engineering News, May 5 and 12.		
May 16.	Highway (15 miles),	Rockville, Ind.	May 5
May 16.	Hatchery, etc.,	Nashua, N. H.	May 5
May 16.	Shelter pavilion,	Detroit, Mich.	May 5
May 16.	Sewers,	Toledo, O.	May 5
May 16.	Bridge (100 ft. long),	Chehalis, Wash.	May 5
May 16.	Aqueduct (14½ miles),	Birmingham, Eng.	May 5
May 16.	Steam heating, etc.,	Springfield, Mass.	May 5
May 16.	Brick paving,	Cincinnati, O.	May 5
May 16.	Library building,	Newark, N. J.	Apr. 21
May 16.	Street bonds ($200,000),	Camden, N. J.	Apr. 28
May 16.	Street bonds ($20,000),	Alliance, O.	Apr. 28
May 16.	Road bonds ($40,000),	Brazil, Ind.	Apr. 28
May 16.	Bridge,	Sandusky, O.	Apr. 28
May 16.	School bonds ($300,000),	Cleveland, O.	May 12
May 16.	Brick paving,	Chester, Pa.	May 12
May 16.	Paving (9,000 sq.yds), etc.,	Uniontown, Pa.	May 12
May 16.	Pipe sewers,	Uniontown, Pa.	May 12
May 16.	Bridge abutments,	Vinton, Ia.	May 12
May 16.	Electric light plant,	Lehighton, Pa.	May 12
May 16.	Pipe sewers,	Albany, N. Y.	May 12
May 16.	Reservoir, etc.,	Bedford, Pa.	May 12
	Advertised, Engineering News, May 12.		
May 16.	Brick paving, etc.,	Montgomery, Ala.	May 12
May 16.	Brick paving, etc.,	Albany, N. Y.	May 12
May 16.	Gravel and screenings,	New York, N. Y.	May 12
May 16.	Road improvements,	Seymour, Conn.	May 12
May 17.	Temporary market house,	Cincinnati, O.	May 12
May 17.	Pipe sewers,	Troy, N. Y.	May 12
May 17.	Collecting garbage, etc.,	Newport News, Va.	May 12
May 17.	Water line franchise,	Los Angeles, Cal.	Apr. 28
May 17.	Pumping machinery,	Albany, N. Y.	Apr. 28
	Advertised, Eng. News, Apr. 28 and May 5.		
May 17.	Hospital building,	Newberry, Mich.	May 5
May 18.	Court house,	Los Angeles, Cal.	May 5
May 18.	Extending water-works, etc.,	Prescott, Ariz.	Mar. 31
May 18.	Bridges (3),	Chicago, Ill.	Mar. 31
	Advertised, Eng. News, Mar. 31 to Apr. 21.		
May 18.	Bridge,	Chicago, Ill.	Apr. 7
	Advertised, Eng. News, Apr. 7 and 14.		
May 18.	Sewers,	Prescott, Ariz.	Mar. 31
May 18.	Bridge,	Forman, N. Dak.	Apr. 28
May 18.	Laying water pipe,	Marshall, Mich.	Apr. 28
May 18.	Grading, etc.,	Cleveland, O.	May 12
May 18.	Sewer bonds,	Cambridge, Md.	May 12
May 18.	Curb stone (7,000 ft.),	Peoria, Ill.	May 12
	Advertised, Engineering News, May 12.		
May 18.	Sidewalks,	Vailsburg, N. J.	May 12
	Advertised, Engineering News, May 12.		
May 18.	Macadamizing, etc.,	Putnam, Conn.	May 12
May 19.	Boulevard work,	St. Paul, Minn.	May 12
May 19.	Sewers, etc.,	Buffalo, N. Y.	May 12
May 19.	Water-works, etc.,	Parnassus, Pa.	May 5
	Advertised, Engineering News, May 5 and 12.		
May 19.	Draw span,	Beverly, O.	May 5
May 19.	Sewerage system,	Parnassus, Pa.	May 5
	Advertised, Engineering News, May 5 and 12.		
May 20.	Railway,	East Las Vegas, N. Mex.	Apr. 28
May 20.	Court house,	Parsons, W. Va.	Apr. 21
May 20.	Water bonds ($12,000),	St. Johnsville, N. Y.	Apr. 14
May 20.	Pipe sewers,	Cleveland, O.	May 12
May 20.	Water pipe, castings, etc.,	New London, Conn.	May 12
	Advertised, Engineering News, May 12.		
May 20.	Curbing, etc.,	Massillon, O.	May 12
May 20.	Sidewalks (4,300 sq.yds.),	Lynchburg, Va.	May 12
May 20.	Sea wall,	Boston, Mass.	May 12
May 20.	Brick paving,	Holyoke, Mass.	May 12
	Advertised, Engineering News, May 12.		
May 20.	Steam pipe,	Chicago, Ill.	May 12
May 21.	Tunnel, etc.,	New Rochelle, N. Y.	May 12
	Advertised, Engineering News, May 12.		
May 21.	Outlet sewer, etc.,	New Rochelle, N. Y.	May 12
	Advertised, Engineering News, May 12.		
May 21.	Church building,	Minneapolis, Minn.	May 12
May 21.	Highway bridges (2),	Long Creek, Ill.	May 12
May 21.	Brick and asphalt paving,	Evansville, Ind.	May 12
May 21.	Wooden hull,	Montgomery, Ala.	Apr. 21
	Advertised, Eng. News, Apr. 21 to May 12.		
May 21.	Culvert and bridges (2),	Cincinnati, O.	Apr. 28
May 21.	Miscellaneous supplies,	West Point, N. Y.	Apr. 28
May 21.	School building, etc.,	White Earth, Minn.	May 5
May 21.	Hospital building,	Fort Thomas, Ky.	May 5
May 21.	Grading (4 miles),	Crookston, Minn.	May 12
May 23.	Business building,	Marshalltown, Ia.	May 12
May 23.	Road scrapers, etc.,	Minnewaukon, N. Dak.	May 12
May 23.	Pile bridges (5),	Minnewaukon, N. Dak.	May 12
May 23.	Asphalt paving,	Camden, N. J.	May 12
	Advertised, Engineering News, May 12.		
May 23.	Brick paving, etc.,	So. Norwalk, Conn.	May 12
May 23.	Brick paving,	Marshalltown, Ia.	May 5
May 23.	Steel bridges (175 ft. long),	Ellendale, N. Dak.	May 5
May 23.	Paving,	East Liverpool, O.	Apr. 28
May 24.	Brick paving,	Cleveland, O.	May 5
May 24.	Bridges (3),	Caledonia, N. Dak.	May 12
May 25.	Storm sewer,	Meadville, Pa.	May 12
	Advertised, Engineering News, May 12.		
May 25.	Asylum building,	Peoria, Ill.	May 12
May 25.	Brick paving,	Oskaloosa, Ia.	May 12
May 25.	Hospital buildings,	San Jose, Cal.	May 12
May 25.	Tunneling,	Scranton, Pa.	May 12
	Advertised, Eng. News, May 12 and 19.		
May 25.	Bridges (3),	Columbus, O.	May 12
May 25.	Granite paving (20,000 sq.yds.),	Butte, Mont.	May 12
May 25.	Brick paving,	Meadville, Pa.	May 12
	Advertised, Engineering News, May 12.		
May 25.	Lighting bonds,	Madisonville, O.	May 5
May 25.	School building,	Cedar Rapids, Ia.	May 5
May 25.	Bridge superstructure,	Zuck, O.	May 5
May 25.	County bridges (9),	Pembina, N. Dak.	May 5
May 25.	Water franchise,	Ridgewood, N. J.	Mar. 24
	Advertised, Eng. News, Mar. 24 to Apr. 28.		
May 26.	Hospital building,	Marshalltown, Ia.	May 5
May 26.	Improving roads (3),	Pittsburg, Pa.	May 5
May 26.	Paving (3 streets),	East Liverpool, O.	May 5
May 26.	Dredging,	Sabine Pass, Tex.	May 5
May 26.	Sewers,	Cleveland, O.	May 5
May 27.	Light and water bonds,	Caldwell, O.	May 5
May 27.	Electric plant,	Caldwell, O.	May 5
May 27.	Steel-bulled tenders (5),	St. Louis, Mo.	Apr. 28
	Advertised, Eng. News, Apr. 28 to May 10.		
May 30.	Factory building, etc.,	Des Moines, Ia.	Apr. 14
May 30.	Stone paving,	Toledo, O.	May 5
May 31.	Electric light plant,	Malvern, Ark.	Apr. 7
May 31.	Bridge bonds, ($60,000),	Hamilton, O.	May 12
May 31.	Hydraulic lift lock,	Peterborough, Ont.	May 12
June 1.	School building,	Keokuk, Ia.	May 12
June 1.	Municipal building,	Stratford, Ont.	May 12
June 1.	Cofferdam, masonry, etc.,	Chicago, Ill.	Apr. 7
June 1.	Electric railway,	Zurich, Switzerland	Mar. 10
June 1.	By-pass, etc.,	Chicago, Ill.	Apr. 21
	Advertised, Eng. News, Apr. 21 and 28.		
June 1.	Court house,	Monticello, Ky.	Apr. 21
June 1.	Arc lights (50),	Columbia, Tenn.	Apr. 28
June 1.	Stone flag and curb,	Battle Creek, Mich.	May 5
June 2.	Electric lighting,	Natchez, Miss.	Apr. 21
June 3.	Sewers,	Cleveland, O.	May 12
June 4.	Brick paving,	Cambridge, O.	May 12
	Advertised, Engineering News, May 12.		
June 4.	Pipe sewers,	Cambridge, O.	May 12
	Advertised, Engineering News, May 12.		
June 6.	Electric franchise,	Gridley, Cal.	Apr. 21
June 6.	Paving,	Toledo, O.	May 5
June 6.	Steel highway bridge,	Pueblo, Colo.	May 12
June 7.	Removing wreck,	Wilmington, Del.	May 12
	Advertised, Eng. News, May 12 to June 2.		
June 7.	County bridges (2),	Alma, Kan.	May 12
June 7.	Sewer system,	Marion, Ind.	May 12
June 7.	Steel bridge and plans,	Franklin, Ky.	May 12
	Advertised, Engineering News, May 12.		
June 7.	Arc lights (50),	Greenville, Miss.	Apr. 28
June 8.	County road,	Bozeman, Mont.	Apr. 21
June 9.	Paving (30,000 sq.yds.),	Lima, O.	May 12
June 18.	Electric light plant,	Fitzgerald, Ga.	May 5
June 18.	Water-works, etc.,	Fitzgerald, Ga.	May 5
June 24.	Electric plant,	Hawthorne, Australia	Apr. 14
June 15.	Pump, gas engine, etc.,	Oil City, Pa.	May 12
	Advertised, Eng. News, May 12 to 26.		
June 25.	Railway bridge,	Chicago, Ill.	May 12
	Advertised, Eng. News, May 12 and 19.		
June 29.	River work,	Chicago, Ill.	May 12
	Advertised, Eng. News, May 12 and 19.		
July 1	Water power,	Madras, India	Oct. 28
July 1.	Plans for sewer system,	Formby, Eng.	Apr. 7
July 1.	Plans for sewer system,	Cohoes, N. Y.	Apr. 28
	Advertised, Eng. News, Apr. 28 and May 5.		
July 15.	Electric plant,	Lamar, Colo.	May 5
Aug. 31.	Custom house,	Guayquil, Ecuador.	Apr. 21
Sept. 12.	Hospital plans,	San Francisco, Cal.	Mar. 24
Oct. 24.	Markets, etc.,	Belem, Brazil	Apr. 28
No date.	Brick paving,	Ithaca, N. Y.	May 5
	Advertised, Engineering News, May 5 and 12.		
"	Electric light plant,	Lawrenceburg, Ky.	May 5

RAILWAYS.

ARKANSAS SOUTHERN.—C. C. Henderson, Gen. Mgr., Junction City, Ark., writes us that the contract has been let and that work will begin in June on the proposed extension of this line from Junction City to Boyce, in order to reach Sabine Pass, Tex. J. M. Jackson, Ch. Engr., Junction, Tex.

ATCHISON, TOPEKA & SANTA FE.—Press reports state that this company is contemplating the construction of an extension of its line from Mojave to Bakersfield, so as to connect with the San Francisco & San Joaquin Valley R. R. James Dun, Ch. Engr., Topeka, Kan.

BURLINGTON, CEDAR RAPIDS & NORTHERN.—H. F. White, Ch. Engr., Cedar Rapids, Ia., writes us that no new extension to this line are under way, or projected. The improvements being made include the cutting down of a hill on the main line, 20 miles north of Cedar Rapids, near Vinton, thus reducing the grade from a little over 1% to 7-10 of 1%. This involves 127,000 cu. yds. of earth and 1,000 cu. yds. of rock excavation, and the replacing of a combination truss on old stone abutments about 30 ft. high with two 45-ft. segmental arches, and the raising of the grade over the arches 10 ft. A small yard is also being rebuilt at Burlington, Ia., and a new brick freight house, 35 x 250, is in course of construction; estimated cost of yard and building, $25,000. An index of bridge work for 1898 is published under Bridges, which shows all the more important bridges which will be replaced with permanent work. All the masonry contracts have been let and work on the same is under way.

CAROLINA & NORTH WESTERN.—Reports state that grading has been completed on about two-thirds of the proposed extension of this line from Newton to Hickory, N. C., 10 miles, which will serve as a connecting link between different sections of the system. The contractors are J. R. Ervin & Co., Morgantown, N. C.; Pres., G. W. F. Harper, Lenoir, N. C.

CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS.—G. W. Kittredge, Ch. Engr., Cincinnati, O., informs us that the improvements projected for this season are as follows: The construction of five miles of sidings, yard extensions at Kankakee, Ill.; an interlocking plant at Bellefonte, O., with 50 levers; one at Greensburg, O., with 68 levers, and one at Cleveland, O., with 26 levers. New stations are also proposed for Terre Haute, Ind.; Marion, Ind.; Union City, Ind., and Bellefontaine, O. All the work will be done by the company except the erection of the stations, which has already been awarded.

DECATUR, DANVILLE & SOUTHWESTERN.—Reports state that this company proposes to construct a railway from Decatur to Danville, 18 miles, with a possible extension to Tuscaloosa, about 60 miles further. Joseph Shackelford, Danville, Ala., is said to be interested.

ELKHART & WESTON.—We are informed that the Elkhart & Western R. R. has filed a map of the relocation of a line from their present terminus at Mishawaka, Ind., to a connection with the Vandalia R. R. at South Bend, Ind. This will complete the belt line around South Bend. It is expected to build the road this summer. H. E. Buckles, Pres.; W. H. Rosencrans, Ch. Engr., South Bend, Ind.

GALVESTON, BRAZOS & SOUTHWESTERN.—L. E. Beadle, Ch. Engr., Galveston, Tex., informs us that grading has been completed on the proposed line between

Galveston and Angleton, Tex., a distance of 30 miles; extensions to San Antonio are projected. Pres., L. P. Featherstone, Galveston.

GREAT NORTHERN.—A. Guthrie & Co., St. Paul, Minn., inform us that the work on this line between Larimore, N. Dak., and Havre, Mont., includes strengthening of the banks, a full dressing of gravel and the taking out of sags. There is also some change in line, leveling, cuts, etc., for snow protection.

KANSAS MIDLAND.—A. H. Jackman, Engr. and Roadmaster, Wichita, Kan., informs us that the Wichita terminals will be improved early this season by the building of 800 ft. of new track. The only other improvement projected is the construction of a general store house, 18 x 32 ft. W. P. Homan, Gen. Mgr.; R. L. Wolff, Receiver, Wichita.

KESHEQUA.—This company was incorporated in Keshequa, Pa., May 9, with a capital stock of $150,000, with $3,000 paid in, to construct 15 miles of steam railway, from a point on the Mt. Jewett, Kinzua & Ritterville R. R., to a point on the Western New York & Pennsylvania R.R. The incorporators are Elisha K. Kane, Pres.; A. B. Cody, T. E. Moulton, C. D. Lamb and Le June Kepler, all of Kashequa.

LICKING VALLEY.—John Morrow, Audr., Yale, Ky., informs us that this company is building an extension up Licking River, which will probably be extended from Yale to Prenchburg, Ky. Ten miles are now under construction. C. H. Eaton, Pres. and Gen. Mgr., Salt Lick, Ky.

LOUISIANA & ARKANSAS.—J. A. Buchanan, Gen. Mgr., Stamps, Ark., informs us that this line is now being extended from Coyle to Cotton Valley, La., a distance of 13 miles. A connection will be made with the Minden R. R. at Cotton Valley. The reorganization of this company was noted in our issue of March 31.

NEW YORK, WYOMING & WESTERN.—This company was incorporated in Pennsylvania May 9 with a capital stock of $1,000,000, of which $40,000 is paid in. It is proposed to construct 80 miles of railway between Scranton, Pa., and New York, for the carrying of coal from Luzerne county to tidewater. The incorporators are Edward B. Sturges, Pres.; William Connell, Thos. H. Watkins, Jas. N. Rice and Jas. J. Williams, all of Scranton, Pa.

PECOS & NORTH EASTERN.—Surveys have been made for this proposed railway from Roswell, N. Mex., to Amarillo, Tex., 206 miles, according to reports, and grading has been commenced by Mallory, Cushing & Co., of Chariton, Ia. The maximum grade is 1%, and 56-lb. rails will be laid. Pres., J. J. Hagerman, Colorado Springs, Colo.; Gen. Mgr., E. O. Faulkner, Eddy, N. Mex.

PENSACOLA TERMINAL.—Reports state that this railway, now in operation from Pensacola to Fort Barrancas, Fla., 9 miles, will be extended at once for a distance of 2 miles. Pres., W. H. Northup, Pensacola.

PICKENS.—Julius E. Bogg, Pres., Pickens, S. C., writes us that the extension between Easley and Pickens, a distance of nine miles, has been completed, and that operation on the same has commenced. The line is meant to be used for the development of hardwood timber and farming tracts in this vicinity. T. B. Lee, Ch. Engr., Greenwood, S. C.

RALEIGH & CAPE FEAR.—J. A. Mills, Pres., Raleigh, N. C., informs us that between 5 and 6 miles have been graded on the proposed railway from Cory, N. C., to the Cape Fear River, a distance of 35 miles.

SUGAR CREEK.—This railway company was incorporated in West Virginia, May 4, with a capital stock of $250,000, with $200 paid in, to operate a steam railway from McDonald to Raleigh Court House, W. Va. The incorporators are J. W. Davis, Geo. N. Davis, and M. E. K. Davis, of Coffman, W. Va.; E. H. Fudge and R. S. Fudge, of Chicago, Ill.

TORRES & PRIESTAS.—F. H. Seymour, Pres., Torres, Sonora, Mexico, writes us that this company intends to construct about 6½ miles of railway into the forests in order to obtain a supply of wood for fuel to supply two local mining companies. Mr. Seymour desires to purchase a sufficient number of second-hand 30-lb. T-rails, and information regarding the same is solicited. Supt., Wirt Bowman.

WESTERN MARYLAND.—C. O. Vandevanter, Principal Asst. Engr., Baltimore, Md., informs us that the contract for the grading, masonry and ballasting on the Hagerstown & State Line and the Washington & Franklin branches of this railway has been awarded to J. R. Serpell & Co., of Louisville, Ky.; work is to be completed by Oct. 31. These lines are intended to form a low-grade short line cut-off for the Western Maryland between Hagerstown, Md., on its main line, and Altenwald, Pa., upon its Baltimore & Cumberland Valley line. S. L. Lamkin, of Hagerstown, has also received the contract for the construction of a new roundhouse at Hagerstown.

YAZOO DELTA.—Reports state that grading will be completed by July 1 on the proposed extensions of this line now building from Ruleville to Tutwiler, Miss., 22 miles, and from Moorhead, to the south 15½ miles. The grading is being done by W. A. Shippey & Co., Memphis, Tenn.; and the bridging and track-laying by R. M. Quigley & Co., St. Louis, Mo. Pres., Chester H. Pond, Moorhead, Miss.

STREET AND ELECTRIC RAILWAYS.

DEDHAM, MASS.—Reports state that the Norfolk Western St. Ry. Co. has been granted a franchise to construct an extension through this town.

BUFFALO, N. Y.—F. A. Dudley, Niagara Falls, informs us that the Buffalo & Lockport Ry. Co., whose incorporation was noted in our last issue, has acquired a number of lines between this city and Lockport, via Tonawanda and North Tonawanda, and that connections will be made by the company so as to form a complete line of electric railway about 25 miles in length. Pres., W. Caryl Ely, Niagara Falls; Vice-Pres., Henry J. Pierce, Buffalo, N. Y.; Secy., Treas. and Gen. Mgr., Burt Van Horn, Jr., Niagara Falls, N. Y.

COXSACKIE, N. Y.—The Coxsackie & Middleburg Electric Ry. Co. has commenced the construction of its proposed line. It is expected to complete the first five miles by July 1.

ITHACA, N. Y.—The council of this city has granted a franchise to the Ithaca St. Ry. Co. to lay a single-track surface railway, with a gage of 4 ft. 8½ ins., from Tioga and East Mill St., along East Mill St. to Linn St., thence northerly on University Av., and thence on University Ave. to Lake St.; also from Triphammer Falls westerly on University Ave. to the campus line of Cornell University. J. N. Bennett, Ch. Engr., Savings Bank Bldg.

LOCKPORT, N. Y.—The Lockport & Olcott Electric Ry. Co. was organized by the directors of the Buffalo & Lockport Ry. Co. May 6, according to reports, to construct a line from Lockport to Olcott, on Lake Ontario, a distance of 12 miles.

MOUNT VERNON, N. Y.—The New York, Westchester and Connecticut Traction Co. has applied to the council for a franchise to construct and operate on several miles of streets in this city. The application has been referred to the committee on railroads.

NEW YORK, N. Y.—Press reports state that the cable road of the Third Ave. R. R. Co. will probably be equipped with electricity within a year. The 42d St. horse car branch and the other branch lines would probably be changed first. The company owns between 70 and 80 miles of track, and it is estimated that the change would cost about $5,000,000. Pres., A. J. Elias, 65th St. and 3d Ave.

BOUND BROOK, N. J.—The council of this place, May 3, granted a franchise to the New York & Philadelphia Traction Co. to operate a line through Bound Brook. This will permit the construction of a continuous line from Plainfield to Somerville and Raritan.

ALLENTOWN, PA.—The Allentown & Kutztown Traction has organized at Kutztown by electing the following officers: Pres., H. J. Schmick; Secy., George Misch, Philadelphia; Treas., Asa R. Speers, Mauch Chunk, Pa.; Directors, G. R. Misch, Jr., Philadelphia; D. W. Mohn, Mohnville, Pa. It is said that the road will be 18 miles in length, and work on its construction will be commenced as soon as the bids can be advertised and the contract awarded. The estimated cost of the road, completed and equipped, will be about $180,000. Steel rails and stone ballast will be used in order to permit a high rate of speed to be attained.

BOYERTOWN, PA.—It is reported that the Boyertown & Reading Electric R. R. Co. will commence work on its line at once. The road when completed will run by way of Shanesville and Pleasantville to Reading, over the Oley Turnpike.

UNIONTOWN, PA.—It is reported that the Uniontown Electric Ry. Co. has decided to construct an extension of its lines to the Stewart Coke Works in Cool Spring Hollow, and the matter has ben placed in charge of a committee with instructions to begin construction immediately. The extension will connect with the park terminus; and the company also intends to continue the extension on to Lemont and Youngstown this summer, a distance of five miles.

WILKESBARRE, PA.—Contracts were awarded, May 5, according to reports, for the electrical equipment of the Wilkesbarre & Northern R. R. between Luzerne and Harvey's Lake, to cost about $50,000. Work is to be completed by June 15. Pres., John Graham.

TOLEDO, O.—J. N. Bick, of Toledo, has the contract for the construction of the Toledo & Monroe Ry., an electric line being built between Toledo and Monroe, a distance of about 23 miles. We are informed that the power house is about completed, one-third of the road graded, and about 70% of the right of way obtained. Pres., Wm. C. Johnson, Detroit, Mich.

BLOOMINGTON, ILL.—An electric street railway company has been organized in this city, with a capital stock of $20,000, by W. H. Beaver, J. W. Gray and J. Y. Chisholm.

LYONS, ILL.—The Desplaines Valley Electric Ry. Co. was incorporated in Illinois, May 5, with a capital stock of $100,000, to construct a railway from some point in Lyons to some point in Chicago. The incorporators and the first board of directors are Nelson F. Merrill, Hiram A. Johnson and H. Wallace Pierce, of Chicago; Henry B. Fargo, Geneva; Samuel S. Carman, Jr., Oak Park, Ill.

VALLEY JUNCTION, IA.—Reports state that this village will soon vote on a proposition to grant a franchise to the Interurban R. R. Co., which proposes to build an electric line from Des Moines.

EAU CLAIRE, WIS.—The Chippewa Valley Electric Ry. Co. has been organized here, according to reports, with a capital stock of $200,000, to build and operate the interurban line and the Chippewa line and eventually to control the entire trolley system of Eau Claire. The officers are: Pres., N. C. Wilcox; Vice-Pres., H. N. Bates; Secy. and Treas., A. E. Appleyard.

OMAHA, NEB.—D. H. Goodrich, Secy. Omaha St. Ry. Co., informs us that the new equipment which this company proposes to install has already been purchased and work is in progress. The new dynamos will be supplied by the General Electric Co., one new engine by the E. P. Allis Co., six boilers by the Omaha Mfg. Co., 40 motor cars by Jones, of Troy, N. Y.; 40 trucks by Peckham, of Kingston, N. Y.; 450 tons of 73-lb. rails from the Cambria Iron Co., and the wire by Roebling, of Trenton, N. J. Pres., Frank Murphy; Gen. Mgr., W. A. Smith, both of Omaha.

KANSAS CITY, MO.—Press reports state that the directors of the Metropolitan St. Ry. Co. have decided to spend about $250,000 this year in improvements and changes to their system.

AUSTIN, TEX.—Press reports state that a number of South Austin citizens, headed by Geo. A. Brush, have petitioned the county commissioners for the right of way for a new street car line, which will require the erection of a bridge over the Colorado River.

HOUSTON, TEX.—The Houston Belt & Magnolia Park R. R. was sold by Frank Andrews, special commissioner, May 3, to J. E. McAshan for $5,000.

PASADENA, CAL.—The Pasadena & Los Angeles Electric Ry. Co. was sold in Los Angeles, April 27, to Don C. Porter, representing the reorganization committee, for $150,000.

ALMONTE, ONT.—It is reported that Andrew Bell, C. E., has been instructed to make surveys for a tramway to be built from Clyde Forks or Flower Station to the mines of the Hamilton Smelting Co.'s works in Darling township.

EDINBURGH, SCOTLAND.—Reports state that Dick, Kerr & Co., of London, England, have been awarded the contract for the construction of the new Edinburgh cable line, at $445,000.

ELECTRIC LIGHT AND POWER.

BOLTON FALLS, VT.—G. H. Almon, Gen. Mgr. Bolton Falls Electric Co., Montpelier, Vt., writes us that the company is receiving estimates for constructing the proposed plant, to cost about $75,000. There will be required three 600-HP. wheels, with three 450-K-W. alternators on wheel shaft. Mr. Almon wishes to correspond with manufacturers.

ALBANY, N. Y.—The E. G. Bernard Co., Troy, N. Y., has been awarded the contract for electric wiring the state capitol, at $23,900. The contract for furnishing the fixtures has been let to the Mitchell-Vance Co., New York, at $56,500.

CHARLOTTE, N. Y.—This place voted May 4 to issue $10,000 in bonds for a plant and $25,000 for water-works. Bids for the work will probably soon be asked. Engrs., Stanwix Engineering Co., Rome, N. Y.

GENEVA, N. Y.—The council has rejected the bids received recently for lighting this city. The council is reported as now considering the question of a municipal plant.

HUDSON, N. Y.—We are informed that the Jansen Kil Electric Power Co. was incorporated by special act on April 29. The act grants many special privileges, and makes the capital stock $100,000, with privilege to increase to $250,000. The company owns two water powers on the Jansen Kil, which will develop not less than 1,500 HP. each at low water. It is proposed to develop the upper fall first by building a masonry dam, 15 ft. high and 125 ft. long. Cutting a canal 1,500 ft. long, 25 ft. wide and 10 to 15 ft. deep, mostly through rock. To install motor power and electric power plant, and carry same by overhead wires to Hudson, ten miles distant, for light and power throughout the city. The company is now getting surveys, maps, etc., preparatory to advertising for bids for development of water power at falls. It is expected to receive bids in June, or sooner. W. A. Harder, Jr., Pres.; H. A. Benedict, Supt.

MIDDLETOWN, N. Y.—P. F. Miller has been awarded the contract for constructing the power-house for the Citizens' Electric Light & Power Co. The power-house will be 40 x 60 ft.

WATERVLIET, N. Y.—Bids are reported as being asked for furnishing the additional machinery for the electric plant. The plans were prepared by the Hartford Steam Boiler Inspection Co., Hartford, Conn.

ATLANTIC CITY, N. J.—We are informed that John H. Rothermel, Reading, Pa., who was recently awarded a contract for lighting this city, has not yet got ready the plans for the proposed plant.

ASHLEY PA.—The Economic Heat, Light & Power Co. has asked for permission to place 25 2,000-c. p. arc lights for lighting the town for ten years. Burgess Harrigan and John Shidal may be addressed.

LEHIGHTON, PA.—Bids are asked until May 16 for furnishing for the proposed plant two return tubular boilers, one Corliss engine pump, heater, stack line shaft and belting, and one arc dynamo, one alternating dynamo, switchboard and pole line construction; estimated cost, $20,000. J. T. Gemmel, Pres., writes us that the plant will have 60 arc and 2,000 incandescent lights. W. H. Monty, Chn. Com.; David Auge, Secy.

YARDLEY, PA.—E. W. Meloney, Gen. Mgr. Provident Electric Light & Power Co., writes us that the company is about to close a contract with the Dayton Globe Iron Works, Dayton, O., for two 100-HP. water wheels. The company will build several extensions to its line and will use water power instead of steam.

SALISBURY, N. C.—F. B. Arendale, Raleigh, N. C., is interested in a projected water power plant on the Yadkin River in Stanly and Montgomery counties. The company will have a capital stock of $1,000,000.

MACON, GA.—It is stated that the plant, property and contracts of the Macon Gas Light & Water Co. will be sold to the Macon & Indian Spring Ry. Co., for $40,000. The new owners will continue to furnish the city with electricity.

NASHVILLE, TENN.—The Cumberland Electric Light & Power Co. has been awarded the contract for lighting this city with 350 arc lights for ten years, at $85 a light a year. Capt. T. M. Steger may be addressed.

AKRON, O.—The Akron Rapid Transit Co. has been awarded the contract for lighting this city with electricity. T. F. Walsh is interested.

COLUMBUS, O.—The water-works department received no bid May 3 for furnishing a 500 or 600-light dynamo Director Jacobs will soon make arrangements for securing the dynamos by some other method.

TOLEDO, O.—Bids are asked, until May 23, for electric wiring and supplying 800 incandescent lamps for St. Patrick's new church. Address Rev. E. Hannin, Toledo.

ORLEANS, IND.—The proposed plant and water-works at this place, to cost $15,000, will be completed Nov. 1. Frank Scheffold, New Albany, Ind.

GRAND RAPIDS, MICH.—The following submitted bids May 5 for constructing the proposed plant, as advertised in Engineering News; Engrs., Nagle & Ball, New York Life Bldg., Chicago: Wicks Bros., Saginaw, Mich.; Henry Brobst, Grand Rapids; C. C. Peck, Rochester, N. Y.; Hein Safety Boiler Co., Chicago; Babcock-Wilcox Co., New York; Adams & Bagnall, Cincinnati; A. C. Sekel & Co., Grand Rapids; Fort Wayne Electric Corporation, Fort Wayne, Ind.; Westinghouse Electric & Mfg. Co., Pittsburg, Pa.; Electric Installation Co., Chicago; Grand Rapids Electric Co., Grand Rapids; Nordberg Company, Milwaukee; Grand Rapids Electric Light & Power Co., Grand Rapids; Buckeye Engine Co., Indianapolis; Hoven, Owens & Rentschler Co., Hamilton, O.; Westinghouse-Church-Kerr Co., New York; Lane & Bodley Co., Cincinnati; General Electric Co., Schenectady; Arbuckle, Ryan & Co., the Filer-Stowell Co., Milwaukee; Furniture City Electric Co., Grand Rapids; Chase Construction Co., Detroit.

SIDNAW, MICH.—H. C. Stewart, P. M., writes us that nothing has been done as yet in regard to the proposed plant, except to secure estimates of cost, etc. W. S. Prickett may be addressed.

MAPLETON, MINN.—Sellers Bros., owners of the plant in this city, are reported as having plans prepared for a new power house, to be 36 x 56 ft., and a smokestack, to be 60 ft. high.

NEOSHO, MO.—It is stated that the dam at the power house of the Neosho Electric Light Co., under pressure of the high water, broke May 4, and the city is in darkness. The company will abandon its water power and move its plant to town and put in steam.

UVALDE, TEX.—C. W. Watt, Secy. Uvalde Water, Ice & Electric Co., writes us that bids will be wanted in about 30 days for the proposed plant, to cost $1,800. The plant will have one arc and 350 incandescent lights. The company has plenty of boiler power, but wants an engine, dynamo and about two miles of main wire.

TELLURIDE, COLO.—David Swickhimer, A. J. Clark and Walter Beam are reported as interested in a proposed power plant near Vance Junction. It is proposed to furnish about 1,500 HP.

ATHENA, ORE.—It is stated that this place will soon be lighted by electricity.

COPPEROPOLIS, CAL.—B. Johnston, of the Union Electric Power & Light Co., informs us that the company has not yet arranged for plans and the awarding of contracts for the proposed plant. Capital stock, $1,000,000.

PLEASANTON, CAL.—This place has voted against issuing bonds for a plant and water-works. J. H. Neal, Town Clk.

TORONTO, ONT.—On May 2 the council passed an ordinance directing the board of control to prepare specifications, etc., for the proposed municipal plant of 2,000 HP., and a commercial plant of 6,000 HP. We are informed that as soon as specifications are completed bids for furnishing the machinery and for doing the work will be asked. The committee consists of Mayor Shaw, Aldermen Leslie, Hubbard and Burns. Cy. Engr., C. H. Rust; Cy. Clk., John Blevins.

NEW COMPANIES.—Edmunds Electric Co., Schmits Block, Fort Wayne, Ind.

Citizens' Lighting Co., Atlantic City, N. J.; $150,000, with $2,000 paid in; John H. Rothermel, Reading, Pa.; Rodman Corson, Atlantic City.

Decatur Gas & Electric Co. and the Municipal Electric Light Co., consolidated under name of former company, Decatur, Ill.; $400,000; it is proposed to furnish fuel gas for $1 a 1,000 ft., and for illuminating purposes, $1.25 a 1,000 ft.; electric lights will also probably be furnished; Pres., Geo. C. Danforth; Secy., Joseph Housmer; Treas., W. C. Johns.

Coxsackie Electric Light & Power Co., Coxsackie, N. Y.; $20,000; James G. Newbury, Arthur H. Newbury, J. A. Newbury.

E. A. Perkins Electric Co., Torrington, Conn.; $5,000, with $1,125 paid in cash and $3,875 in stock; Edson A. Perkins, E. C. Franklin, G. E. Reynolds, W. W. Mertz.

Gloucester County Electric Co., Woodbury, N. J.; $25,000, with $1,000 paid in; Thomas S. Latta and M. K. Treichler, Philadelphia; John Mayhew, Woodbury Heights; Blair Smith, Wenonah, N. J.; Isaac T. Imhoff, Glassboro; Rudolph McFarland, Monroeville; D. W. Green and Bingham Hood, of Pitman Grove, and David O. Watkins, of Woodbury. The new company has purchased the plant formerly belonging to the Pitman Grove & Glassboro Co.

Kitson Hydro-Carbon Heating & Incandescent Lighting Co., Macon, Ga.; $100,000; to manufacture the Kitson system of hydro-carbon and incandescent lighting, etc.; Ben C. Smith, Clem Phillips, Arthur P. Findlay.

Washington Lighting Co. of Maine, Portland, Me.; to manufacture and sell lamps and apparatus for lighting and heating; $300,000, with $500 paid in; Pres., H. Sterling Pomeroy, Boston, Mass.; Treas., Otis E. Moulton, Dover, N. H.

Jansen Kil Electric Power Co., Hudson, N. Y.; $100,000; William A. Harder, Jr., Philip M. Harder and Charles N. Harder.

Herkimer County Light & Power Co., Herkimer, N. Y.; $400,000; consolidation of three light companies; Wm. F. Cochrane, Yonkers, N. Y.; Geo. F. Weld, New York; Thos. Ringwood, Ilion, N. Y.

Victor Electric Co., Alexandria, Va.; $25,000.

BRIDGES.

WESTBORO, MASS.—The New England Structural Co., East Everett, has been awarded a contract to construct two truss bridges of 65-ft. and 135-ft. spans at this place for the Boston & Albany R. R.

WILLIAMSBURG, MASS.—It is reported that a contract has been awarded to C. H. Kelleher, Newburyport, at $20,000, for constructing a 40-ft. iron bridge and one mile of macadam road.

PROVIDENCE, R. I.—A bill has passed the senate authorizing the city to rebuild the Weybossat bridge and the Red bridge.

NORTH HAVEN, CONN.—The selectmen have awarded the contract for constructing a bridge over the Quinnipiac River, between Wallingford and North Haven, to the Berlin Iron Bridge Co., East Berlin, at $1,430, for the superstructure, and to C. L. Tryon & Sons, Meriden, at $1,261, for the masonry.

ANGOLA, N. Y.—We are informed that the Western New York & Pennsylvania Ry. Co., R. D. McCreary, Ch. Engr., Buffalo, and the New York, Chicago & St. Louis R. R. Co., G. W. Vaughn, Engr., Cleveland, O., have let a contract to the A. & P. Roberts Co., Philadelphia, at $27,000, for constructing the superstructure, and to Dwyer & Huntington, Buffalo, at $5,000, for the substructure of a double track steel viaduct over Big Sister Creek.

BUFFALO, N. Y.—Plans will soon be prepared for a $27,000 steel bridge over the canal at Erie St.

HERKIMER, N. Y.—It is reported that this place is considering the question of constructing a bridge across the canal at Steel St.

ROME, N. Y.—The governor has signed a bill appropriating $8,000 for a bridge over the Erie Canal at South George St.

SANDY HILL, N. Y.—Mr. Paris has introduced a bill in the legislature appropriating $6,000 to construct a steel bridge over the Glens Falls feeder canal on Main St.

SENECA FALLS, N. Y.—A bridge will be constructed over the Seneca River at this place, to cost about $12,000, of which $8,000 has been appropriated by the state.

SYRACUSE, N. Y.—Russel R. Stuart, Cy. Engr., has submitted plans to the council for the West Water St. bridge, estimated cost about $15,000.

DORRANCETON, PA.—Plans have been prepared for the construction of a bridge 160 ft. long across the branch of Toby's Creek at Market St., by the boroughs of Dorranceton and Kingston.

PHILADELPHIA, PA.—A bill has been introduced to the legislature by Mr. Byram to authorize the construction of bridges over Frankford Creek in the 23d, 33d and 35th wards, at a cost of $100,000.

PITTSBURG, PA.—Bids are asked until May 14 for the superstructure and masonry of one pin-connected truss and five wrought-iron through plate-girder highway bridges, and for the construction of four stone arch bridges. Charles Davis, County Engr.; W. E. Thompson, County Controller.

PITTSBURG, PA.—A contract has been awarded to Stratton, Lewis & Co. at $53,354 for constructing the Forbes St. bridge, and to Addison Boren at $24,975 for repairing the Smithfield St. bridge.

WILLIAMSPORT, PA.—Reports state that J. S. Laird, Benjamin Bennett and Isaac Gulliver have been appointed viewers for a county bridge to be erected over Antes Creek, in Nippenose township.

YORK, PA.—Reports state that an iron bridge will be constructed by the commissioners of York and Cumberland counties at Bishops Fording, Upper Allen township. It will be 120 ft. long and 16 ft. wide.

EMMITSBURG, MD.—Wm. G. Blair, Treas., Emmitsburg R. R. Co., Emmitsburg, informs us that it is proposed to construct a new steel truss bridge about 136 ft. long in three spans; it is also proposed to repair trestles.

CENTERVILLE, TENN.—The contract for building the rock pier to the county bridge below Centerville was awarded May 3 to John Bogenshaft, Chattanooga, at $5,000.

FRANKLIN, KY.—Bids are asked, until June 7, for furnishing the plans and for the construction of a steel bridge, as stated in our advertising columns. G. W. Whitesides, County Judge.

COLUMBUS, O.—Bids are asked until May 25 for constructing a 75-ft. bridge over Alum Creek, on East Main St.; estimated cost, $50,000; a 90-ft. bridge in Pleasant township and a bridge in Perry township. W. H. Halliday, County Audr.

CLEVELAND, O.—The senate has passed a bill for the construction of a $150,000 bridge over the Cuyahoga River at Willow St., according to reports.

HAMILTON, O.—Bids are asked until May 31 for the purchase of $60,000 of bridge bonds. Frank H. Drew, County Audr.

TORONTO, O.—S. T. Rowland and others have petitioned the county commissioners for the construction of a bridge over Cross Creek in Wayne township.

CHICAGO, ILL.—Bids are asked, until June 25, for constructing a railway bridge over the Main Drainage Channel, as stated in our advertising columns. James Reddick, Clk. Bd. Drainage Trustees.

DECATUR, ILL.—A contract was awarded, May 7, to J. D. Adams, Indianapolis, Ind., at $2,597, for constructing a highway bridge.

LONG CREEK, ILL.—Bids are asked until May 21 for constructing two highway bridges. C. B. Floyd, Town Clk.

CEDAR RAPIDS, IA.—H. F. White, Ch. Engr., Burlington, Cedar Rapids & Northern Ry., Cedar Rapids, sends us the following index of bridge work for 1898, which shows all the more important bridges that will be replaced with permanent work. In addition to this work there are about 40 bridges to be replaced with stone, box culverts, pipe, etc., All the masonry contracts have been let and work on the same is well under way; all concrete work is done by the company's own force:

Index to Bridge Work on the Burlington, Cedar Rapids & Northern Railway for 1898.

Engineer.	Division.	Bridge No.	Size of iron work.	Remarks.
J. M. Brown....	Main line...	3	2 55-ft. thro' girders.	Skew girder, angle 45-ft., brick pier.
		5	2 55-ft. "	
		6	2 45-ft. "	
		10	1 65-ft. "	
		35	1 65-ft. "	Shallow floor beam
		51	1 69-ft. deck girder.	
		62	1 15-in. 60-lb. 18-ft.	
	C. R. & C.	74	1 35-ft. deck girder.	
	D. I. & D...	9	1 28-ft. shelf angle.*	2 brick piers.
		11	1 28-ft. shelf angle.*	2 " "
		12	.....	16-ft. masonry.
		16	1 24-in. 90-lb. 25-ft.	Pile bridge to be redriven.
		41	1 24-in. 90-lb. 25-ft.	Skew bridge, angle 62° 15'.
Garrett Davis ..	Main line..	147	.....	2 45-ft. masonry arches.
		152	1 84-ft. deck girder.	Pony truss removed.
		163	3 20-in. 80-lb. 24-ft.	
		198	1 30-ft. deck girder.	
		233	4 69-ft. "	
		.0180	6 20-in. 80-lb. 24-ft.	
	Milwaukee.	7	5 24-in. 100-lb. 32-ft.	
		13	1 24-in. 100-lb. 32-ft.	
		14	1 24-in. 100-lb. 32-ft.	
		16	1 24-in. 100-lb. 32-ft.	
		18	2 50-ft. deck girders.	
		22	2 44-ft. "	
		23	2 40-ft. "	
		48	2 53-ft. "	
		64	1 24-in. 100-lb. 32-ft.	
		88A	3 24-in. 95-lb. 30-ft.	2 cylinder piers, 10 ft. high.
		95	1 through girder.	Take out 53-ft. deck girder.
		102	3 24-in. 95-lb. 30-ft.	
		146	2 44-ft. deck girders.	Replace span.
P. G. Herner	Iowa Falls.	40	4 24-in. 90-lb. 25-ft.	2 cylinder piers, 7 ft. high.
		305	6 24-in. 90-lb. 25-ft.	5 cylinder piers, 10½ ft. high.
		356	2 30-ft. deck girders.	Masonry.
		357	2 30-ft. "	"
		383	9 24-in. 90-lb. 25-ft.	8 cylinder piers, 9 ft. high, of concrete.
		384	3 20-in. 80-lb. 20-ft.	To be built in 1899—concrete.
		386	3 20-in. 80-lb. 20-ft.	" " "
		405	.....	" " "
		406	.....	" " "
		3,012	3 24-in. 90-lb. 25-ft.	2 cylinder piers 11 ft. high—concrete.
		3,013	4 24-in. 90-lb. 25-ft.	3 " 12 " " "
		3,014	5 24-in. 90-lb. 25-ft.	4 " 11 " " "
		3,016	.....	20-ft. brick arch with concrete abutments and wings.
		3,017	1 30-ft. deck girder.	
	Sioux Falls	3,018	.....	20-ft. " " " "
		3,019	.....	18-ft. " " " "
		3,020	.....	16-ft. " " " "
		3,021	.....	14-ft. " " " "
		3,022	.....	12-ft. " " " "
	Forest City	1,010	.....	10-ft. masonry.

*And 20-in. beam.

VINTON, IA.—Bids are asked until May 16 for constructing stone abutments to a bridge. R. F. Smith, County Supervisor.

WAPELLO, IA.—Stupp Bros. Bridge & Iron Co., St. Louis, Mo., was awarded a contract May 3, at $10,350, for the superstructure, and to John A. Green, at $3,800, for the substructure of a bridge of three spans, to be constructed over the Iowa River north of this place.

MILWAUKEE, WIS.—We are informed that bids will be asked some time in June for the construction of a bridge at Broadway, estimated cost, $62,000. Bonds will be sold about July 1. Elias Stollenwerk, Chn. Com. Pub. Bldgs.

ALMA, KAN.—Bids are asked until June 7 for constructing two county bridges, 40 and 42 ft. long, according to reports.

CALEDONIA, N. DAK.—Bids are asked until May 24 for constructing three bridges, 28, 36 and 80 ft. long according to reports; surety, $1,000. Geo. O. Stommer, County Audr.

MINNEWAUKON, N. DAK.—Bids are asked until May 23 for constructing five pile bridges, according to reports. D. J. Drummond, County Audr.

KANSAS CITY, MO.—An estimate of $10,000 has been submitted by Henry A. Wise, Cy. Engr., for the construction of a bridge over Brush Creek at Prospect Ave.

AUSTIN, TEX.—Geo. A. Brush and others have applied to the county commissioners for permission to construct a steel railway bridge over the Colorado River.

CAMERON, TEX.—Bids are asked until May 13 for constructing three county bridges, according to reports.

HOUSTON, TEX.—E. B. Cushing, Gen. Supt. and Ch. Engr. Houston, East & West Texas Ry., informs us that about 25 trestles will be replaced by brick and pipe culverts; also two 67-ft. iron girders at Angelina River.——The city engineer is said to have been instructed to prepare plans for the repair of the Preston St. bridge; also for an iron bridge to be constructed at Franklin St. to replace the old one.

PUEBLO, COLO.—Bids are asked until June 6 for constructing a steel highway bridge, 160 ft. long and 42 ft. wide, on tubular piers, over Fountain River, at East First St.; surety, $2,500. E. W. Hathaway, Cy. Engr.

LOS ANGELES, CAL.—An election will be held May 26, to vote on the question of issuing $23,000 in bonds for the construction of certain bridges. C. H. Hance, Cy. Clk.

QUEBEC, ONT.—Reports state that plans have been approved for a bridge to be constructed this summer by the Quebec Bridge Co. over the St. Lawrence River. Uric Barthe, Secy.

BUILDINGS.

PROVIDENCE, R. I.—It is reported that the general contract for constructing the new 3-story brick and stone addition for the Rhode Island Hospital has been awarded to William Gilbane & Bro., of this city; estimated cost, $90,000. Archs., Stone, Carpenter & Willson, 49 Westminster St., Providence.

COLCHESTER, CONN.—A fire in this city, May 7, destroyed the dry goods store of O'Connell Bros. & Sievers on Main St., including the building occupied by the post-office and the Colchester Savings Bank. Reported loss, $60,000.

WEST WINSTED, CONN.—Plans are being prepared, according to reports, for a one-story granite church building, to be erected in this town for the second Congregational Church, to cost about $40,000. Arch., A. B. Jennings, 41 Wall St., New York.

ALBANY, N. Y.—The Carnegie Steel Co., of Pittsburg, has been awarded the contract for furnishing the structural steel to be required in erecting the proposed hotel building at State and Chapel Sts., at about $45,000.

BUFFALO, N. Y.—We are informed that Wm. F. O'Rourke will build a 4-story brick apartment house at Jersey and 7th Sts., to cost $40,000. Arch., John G. Balson, Crystal Ave., near South Park Ave.——E. Webster, Son & Co. will erect a 2-story brick stable, to cost $13,000.

BUFFALO, N. Y.—Henry Schaefer's Sons, 578 Elm St., have been awarded the contract for building the greater part of the new Buffalo Savings Bank building, estimated to cost $300,000.

BROOKLYN, N. Y.—Plans are being prepared by Montrose W. Morris, 45 Exchange Place, New York, according to reports, for a new 10-story addition to the St. George Hotel building in this city, to cost about $200,000.

CANTON, N. Y.—It is reported that plans have been accepted for the new $25,000 jail building to be erected in this town. Archs., Williams & Johnston, Ogdensburg, N. Y.

NEW YORK, N. Y.—Ludwig Bros., 36 West 14th St., contemplate the erection of a 6-story building, 75 x 100 ft., at 34 to 38 West 14th St., to cost about $125,000. It is said that plans have not yet been decided upon.——Reports state that Geo. Vassar's Sons & Co., 111 5th Ave., have been awarded the contract for erecting a seven-story business building at Cliff and John Sts., for Phelps, Dodge & Co., on premises. Archs., Clinton & Russell, 32 Nassau St.——Treffenberg & Terry, 156 5th Ave., have been awarded the general contract for the warehouse to be erected on 50th St., west of 10th Ave., for the Mott estate, 21st St. and 6th Ave.——Robinson & Wallace, 123 East 23d St., have been awarded the general contracts for the two 3-story brick and stone telephone buildings to be erected at 173 East 79th St. and 112 West 89th St., for the New York Telephone Co., 18 Cortlandt St. Arch., Cyrus L. W. Eidlitz, 1123 Broadway.——The contract for the iron work for the new 9-story business building to be erected at 133 5th Ave. for Richard Williams has been let to J. B. & J. M. Cornell 26th St. and 11th Ave. Luke A. Burke, 401 West 59th St., will do the mason work. Arch., Robert Maynicke, 725 Broadway.——Plans have been filed by W. W. Smith, Owner and Arch., 7 Wall St., for a 10-story brick and stone office building at 3 to 7 Wall St. and 84 Broadway, to cost $450,000; by Mrs. O. S. Jennings, Fairfield, Conn., for a 5-story brick dwelling house at 7 East 72d St., to cost $75,000. Archs., Flagg & Chambers, 35 Wall St.; by the Trinity Church Corporation, 187 Fulton St., for an 8-story brick warehouse at 304 to 322 Hudson St., to cost $450,000. Arch., Chas. C. Haight, 111 Broadway.

RIVERHEAD (L. I.), N. Y.—The local school district of Riverhead, May 4, decided to erect a new $25,000 school building. Geo. F. Stackpole is interested.

SCHENECTADY, N. Y.—The Byington Estate expects to erect a modern hotel building on the site of the present Mohawk Building in this city, to cost $20,000. Arch. M. T. Reynolds, 59 North Pearl St., Albany, N. Y.

WEST ORANGE, N. J.—The following were the successful bids, received May 3, for the construction of the proposed new high school building on Gaston St.: For the mason work, M. A. Brennan & Co., $18,765; carpenter work, H. Carhart, $14,745; painting, J. A. Smullen, $456.-plumbing, Magee & O'Connor, $900; heating and ventilating, Fuller Warren Co., $4,260; total, $39,120.

PATERSON, N. J.—S. Burrage Reed, Arch., 245 Broadway, New York, informs us that the High Mountain Hotel, which was reported as about to be erected near Paterson, at a cost of about $100,000, will not be built in time to be used for this season. A new mountain road, requiring several months' work, has first to be constructed. Plans have been completed, but building work will not be undertaken at present.

PHILADELPHIA, PA.—Bids are being received, according to reports, for the erection of a 3-story brick and granite college building at 18th and Stiles Sts., to cost $150,000. Arch., E. F. Durang, 1200 Chestnut St.——The contract for erecting the new school building at 15th and Ontario Sts. is said to have been awarded to Geo. W. Pierson, 12th and Filbert Sts., at $70,535.——The contract for the 12-story apartment house to be erected at 15th and Walnut Sts., for G. Jason Waters, Atlantic City, N. J., has been awarded to Charles McCaul, 10 North 11th St., to cost about $600,000. Arch., Seymour Davis, 907 Walnut St.

SUNBURY, PA.—Hotel Shikelling, a large summer hotel on Susquehanna Heights, near this place, and owned by Drumheller Bros., of Sunbury, was destroyed by fire, May 4. Reported loss, $50,000; insurance, $19,000.

WASHINGTON, D. C.—Our correspondent informs us that Dr. Z. B. Babbitt and Oscar W. White are having plans prepared for a 6-story apartment house, 106 × 164 ft., to be erected at 14th and Roanoke Sts.——Alonzo Bliss will soon erect a 10-story, fireproof apartment house on 16th, near K St.

HAGERSTOWN, MD.—S. L. Lamkin, of Hagerstown, has been awarded the contract for the construction of the proposed roundhouse for the Western Maryland R. R. Co. at this place; work to be completed by Aug 31.

LYNCHBURG, VA.—The city council May 6 appropriated $30,000 for the erection of a new public high school building. A resolution was also adopted declaring that a city hall should be built as soon as practicable. Plans for the new hall, made some time ago, call for a building to cost about $125,000.

ATLANTA, GA.—John Simpson, Ch. Q. M. U. S. Army, of Atlanta, announces that the date of opening bids for the construction of officers' quarters at Tybee Island, Fort Morgan and Fort Point, as stated in our last issue, has been postponed from May 23 to May 30.

CINCINNATI, O.—Bids are asked by the board of city affairs, until May 17, for the erection of a temporary market house on Pearl St., between Main and Sycamore Sts. Pres., A. B. Rattermann; Archs., S. Hannaford & Sons, Hulbert Block.

CLEVELAND, O.—Bids are asked by the board of education, City Hall Bldg., until May 16, for the purchase of $300,000 of 4% school bonds. Treas., Chas. W. Chase.

COLUMBUS, O.—Plans are being prepared for an additional building for the Institution for the Education of the Deaf, to cost $65,000. Archs., Richards & McCarty, of Columbus.——Bids will soon be received for erecting the new 6-story Mithoff Building, to cost about $60,000. Archs., C. A. Stribling & Co.,——Contracts will soon be let for the construction of the proposed Masonic temple, 64 × 188 ft., to cost $100,000, of which about $15,000 is for the iron and steel work. Yost & Packard, Kramer & Hart and John Freese are the architects.

INDIANAPOLIS, IND.—Plans are about completed for the new 12-story, steel frame office building to be erected on East Market St. Arch., Louis H. Gibson, 84 East Market St.

WABASH, IND.—It is reported that bids are asked, until May 18, for erecting a new church building for the First M. E. Church, to cost about $30,000.

CHICAGO, ILL.—Bids are asked, until May 14, for the masonry, plumbing, carpentry work, etc., on a new police station to be built at 47th and Pauline Sts. L. E. McCann, Com. Pub. Wks.——Plans are being prepared for the reconstruction of Hooley's Theatre, to cost about $65,000. Archs., Wilson & Marshall, 218 La Salle St.

CHICAGO, ILL.—Bids are asked by the board of education, 1110 Schiller Bldg., until May 20, for steam pipe and tank coverings.

PEORIA, ILL.—Bids will be received, until May 25, according to reports, for the construction of an asylum building at this place. Arch., William Reeves.

CHEBOYGAN, MICH.—The supervisors of Cheboygan county have accepted plans for the new county courthouse, to cost $30,000. Archs., Rush, Bowman & Rush, of Grand Rapids, Mich.

KEOKUK, IA.—Bids are asked, until June 1, for the erection of a school building in Keokuk, and also for heating and plumbing the same. Secy., O. W. Weyer.

MARSHALLTOWN, IA.—Bids are asked by the Letts-Fletcher Co., of this city, until May 23, for erecting a wholesale grocery house; deposit required $1,000. Archs., Prescott & Crocker, Marshalltown.

MINNEAPOLIS, MINN.—Bids are asked, until May 21, for the erection of a church building for the Bethlehem Church, at Minneapolis. Address Odin Moe, 13th Ave. South and Washington St.

WINDOM, MINN.—Fred. C. Norlander, of St. Paul, Minn., has been awarded the contract for the structural work on the new jail and sheriff's residence. The steel work was let to the Portsmouth Steel & Iron Co., and the heating work to the Pond & Hasey Co.

HANKINSON, N. DAK.—Bids are asked, until May 14, for the erection of a frame opera house for the Hankinson Hall Association. Address R. H. Hankinson; Archs., Schuler Bros., Wahpeton, N. Dak.

KANSAS CITY, MO.—The following bids were received by the Commercial Club, May 2, for the structural iron work on the proposed convention hall: Pittsburg Bridge Co., Pittsburg, Pa., $35,948; Koken Iron Works Co., St. Louis, Mo., $37,000; Gillette-Herzog Mfg. Co., Minneapolis (accepted), $30,418; Farnesworth & Blodgett, Kansas City, Mo., $36,485. Arch., F. E. Hill, New York Life Bldg., Kansas City.

LAS VEGAS, N.MEX.—Reports state that the contract for erecting the superstructure of a hotel in this city for the Atchison, Topeka & Sante Fe Ry. Co. has been awarded to Henry Bennett, Topeka, Kan., at about $50,000.

CHEYENNE, WYO.—The following bids have been received by the supervising architect, Washington, D. C., for excavation, foundation, stone and brick work of basement and area walls, first floor steel beams, girders, sewer connections, etc., for the U. S. building in this city: G. N. Atkinson & Son, Colorado Springs, Colo., $39,784; Robt. W. Bradley, Cheyenne, $39,006; Geddis & Servie Stone Co., Denver, Colo., $44,750; L. L. Beach & Son, Chicago, Ill., $42,000.

SEATTLE, WASH.—The following bids were received by the school board, May 3, for the construction of the proposed addition to the Cascade School Building: Cawey & Carney (accepted), $31,200; Erickson & Roseleaf, $33,900; R. B. Wark, $31,708; Dittleford & Combs, $31,-761; Nichols & Crothers, $34,700; James Spurr, $36,500.

SAN FRANCISCO, CAL.—Thomas Butler has been awarded the contract for the brick and iron work on the new 4-story brick building to be erected at 19th St. and Mission Ave for the Youth's Directory, at $26,991. The carpentry contract was let to J. W. Smith, at $17,390.

SAN JOSE, CAL.—Bids are asked by the managers of Agnews State Hospital, until May 25, for constructing two brick cottages for patients. Secy., T. S. Montgomery, 32 East Santa Clara St.

STRATFORD, ONT.—Competitive plans and specifications are asked, until June 1, for the erection of a new municipal building in this city; also plans for reconstruction on the walls of old building lately destroyed by fire. Geo. F. Ingram, Chn. Market and Police Com.

MEXICO, MEX.—Press reports state that Adamo Boari, a Chicago architect, has been awarded the first prize of $15,000 for his design for the new capitol building to be erected here at a cost of several million dollars.

WATER-WORKS.

HALLOWELL, ME.—Chas. N. Taylor, Natick, Mass., has been awarded the contract for laying about 25,500 ft. of 6, 8 and 12-in. cast-iron water pipe and for setting gates, hydrants, etc., as advertised in Engineering News, at about $4,000.

ESSEX JUNCTION, VT.—S. A. Brownell, Chn. Com., writes us that a committee has been appointed to consider the question of works and to report in the summer. The committee wishes to secure prices of pipe, pumps and of sinking wells. Population, 1,200. Other members of the committee are reported to be T. W. Sibley, C. M. Ferrin, J. S. Reynolds and F. H. Parker.

HUNTINGTON, MASS.—Louis E. Hawes, Tremont Bldg., Boston, has submitted a report on securing a water supply from Cold Brook and Gold Mine Brook; estimated cost, $27,340.

RUTLAND, MASS.—The question of extending the mains about 6,000 ft. is being considered. C. S. Bartlett, Supt.

NEW LONDON, CONN.—Bids are asked until May 20 for furnishing 668 tons of 24-in. water pipe and 5.5 tons of special castings, as stated in our advertising columns. Supt. and Engr., W. H. Richards.

BUFFALO, N. Y.—The board of public works is preparing specifications for cast-iron pipe, castings, valves, hydrants, corporation cocks and valve and service boxes for use during the coming season.

CAIRO, N. Y.—Henry D. Churchill, Supt., writes us that the contract for constructing the works has been let to W. T. Inman, New York. About 600 tons of 12-in. main, a dam 30 ft. high, 60 ft. long and 16 ft. broad at base, etc., will be required; estimated cost, $15,000. Des. Engr., Eberhard J. Wulff, Tarrytown, N. Y.——The Cairo Water Co. has been incorporated, with a capital of $40,-000, by Wm. P. Richardson, Goshen, N. Y., and others.

DEERFIELD, N. Y.—The West Canada Water-Works Co. of Utica has been incorporated with a capital stock of $500,000 by Oliver S. Carter and John V. Bacot, of East Orange, N. J.; George L. Record, of Jersey City; William S. Bacot, C. E., of East Orange, N. J.; Edward D. Matthews, Theodore Avery and Robert O. Jones, of Utica.

NEWBURG, N. Y.—Everett Garrison, Newburg, and John D. Van Buren, Brooklyn, have submitted a report on the proposed new mains for Washington St., to cost about $13,000. Jos. A. Sneed, Pres. Water Comrs.

CHARLOTTE, N. Y.—This place voted, May 4, to issue $25,000 in bonds for works and $10,000 for an electric plant. Engrs., Stanwix Engineering Co., Rome, N. Y.; Clk., P. M. Schwartz.

LITTLE VALLEY, N. Y.—S. L. Sweetland, Secy. Comrs., writes us that our item in our issue of last week in regard to water-works and an electric plant was a mistake. This place has its own works and also an electric plant. The item should have read that the town does not expect to vote this year on the question of extending the works and the light plant.

OGDENSBURG, N. Y.—Bids are asked until May 14 for the purchase of $33,250 of 20-year 4% water bonds. W. M. Stephens, Cy. Treas.

ROCHESTER, N. Y.—The Genesee River Water Storage Co. was incorporated April 29 by Geo. W. Rafter, Civil Engr., Rochester, and others. The proposed dam will be built near Portageville.

WAYLAND, N. Y.—Geo. E. Whitman, Pres., writes us that the town has employed J. F. Witmer, Ellicott Square, Buffalo, to prepare plans, etc., for the proposed works. Nothing definite can be given at present.

BEAVER, PA.—This place has voted to issue $38,000 in bonds for a new pumping plant for the works. John R. Eakin may be addressed.

BEDFORD, PA.—Bids are asked until May 16 for building a reservoir, as described in our advertising columns. D. S. Horn, Solicitor.

DOWNINGTOWN, PA.—The Downingtown Gas & Water Co. has let the contract for building a 3,000,000-gallon reservoir to Vandergrift & Jacobs, Philadelphia.

ERIE, PA.—Wm. Himrod, Secy. and Treas. Water Comrs., writes us that the contract for furnishing an 8,000,000-gallon compound high-duty pumping engine has been awarded to Henry R. Worthington, New York.

MATAMORAS, PA.—A. W. Balch writes us that a charter for the Matamoras Water Co. has been applied for. A reservoir, etc., will be built on the hills back of this place. Those interested are said to be C. A. Snyder, H. O. Rosenkrans and A. T. Porter.

OIL CITY, PA.—Bids are asked until June 15 for furnishing a pumping engine, gas engines, etc., as stated in our advertising columns. A. M. Breckinridge, Clk.

WARREN, PA.—An election will probably soon be held to vote on the question of issuing $50,000 in bonds for municipal works. Wm. O'Neil, John Masterson and Levi Smith compose the committee.

CHESTERTOWN, MD.—James Brice, Water Comr., writes us that the town is yet considering the question of purchasing the works from C. T. Westcott, Pres. Chestertown Water Co.

HYATTSVILLE, MD.—At the election held May 2 the project to bond the town for $25,000 for the purpose of establishing a complete water-works and partial sewerage system was defeated. It is said the many who voted in the negative would be in favor of these improvements but considered the sum provided for inadequate to put in a good system.

WHEELING, W. VA.—A. L. White, Cy. Engr., writes us that the water board has instructed him to prepare plans and specifications for a 12,000,000-gallon pump and for an addition to the present station. The contract for this work will be let this season. H. F. Jones, Pres. Water Board; C. M. Oliver, Supt.

WEST COVINGTON, KY.—E. O. Young, Cy. Engr., writes us that this place is negotiating with the commissioners of Covington for a water supply. There will be required 5,000 ft. of 8-in. and 10,000 ft. of 6-in. cast iron water pipe, 20 hydrants and a ton of special castings. Population, 750.

BELLEVUE, O.—The question of issuing $7,000 in bonds for extending the mains is being considered.

CINCINNATI, O.—F. Kirchner & Co. have been awarded the contract for constructing the new intake tunnel, pit and pumping station, at $440,699. The itemized bids were given in our issue of last week. The other bids were as follows:

Globe Construction Co., Cincinnati	$449,108
Griffith & McDermott, Chicago	459,919
Folz, Willard & Co., Cincinnati	503,050
T. A. Gillespie & Co., Pittsburg	511,239
McDonald & Thompson, Pittsburg	528,709
Mason & Hoge Co., Frankfort, Ky	529,341
Henkel & Sullivan, Cincinnati	583,145
Kneeling, Ridger & Kauffmann, Pittsburg	584,494

DRESDEN, O.—The question of issuing $7,000 in bonds for works is being considered, according to reports.

NORWALK, O.—Bids for the purchase of $30,000 of bonds for extending the works will probably soon be asked. The improvements will include a stand pipe, a 3,000,000-gallon pump, etc. W. E. Bell, Pres. Comrs.

EVANSVILLE, IND.—Bids will be asked at once by the water board for building a new boiler house, engine house and smokestack for the new water-works.

LA PORTE, IND.—W. H. Rosencrans, South Bend, Ind., has prepared plans and specifications for a boiler house, pumping station and horizontal wells, pipe line, and removal and installation of pumps, at a new pumping station for the city to be located on the Little Kankakee River, four miles east of this place.

ORLEANS, IND.—The proposed works and light plant for this place, to cost about $15,000, are to be completed by Nov. 1. Frank Scheffold, New Albany, Ind., is interested.

ALPENA, MICH.—An election will probably soon be held to vote on the question of purchasing the works of the Alpena City Water Co.

DELRAY, MICH.—The Detroit Water Board has agreed to build the proposed works for this place, the water supply being taken from same source as that of Detroit. There will be required about 10 miles of pipes; estimated cost, $35,300.

DOLTONS STATION, ILL.—We are informed that Dolton is sinking an artesian well for a water supply. It is proposed to reach a depth of about 1,600 ft. L. Wilson, 53 Dearborn St., Chicago, is doing the work.

FREEPORT, ILL.—We are informed that the Freeport Water Co. will install at its stand-pipe a hydraulic valve to be operated from the pumping station by means of electricity. Firms having such apparatus for sale should communicate with Owen T. Smith, Supt. H. B. Zartman, Secy.

WINTHROP, IA.—This place has voted in favor of building works, according to reports.

BUFFALO CENTER, IA.—Oliver Gordon, Mayor, writes us that this place voted, April 30, to issue bonds for works.

OLIN, IA.—The question of building works is being discussed, according to reports. S. W. Flaherty is said to be interested.

OSCEOLA, IA.—J. W. Boden writes us that no arrangements have yet been made for the proposed works; population, 2,500.

POMEROY, IA.—The Mayor writes us that it has been decided not to put in the proposed works this year.

PRESTON, IA.—We are informed that the works for the Preston Light & Water Co., being constructed by the Iowa Engineering Co., Iowa City, will be completed this month. Secy., W. B. Davy.

BEARDSLEY, MINN.—J. Maher, Pres., writes us that this place will decide upon the question of building works in about 30 days. Thos. Flood may also be addressed.

BROOTEN, MINN.—The question of building works is being considered, according to reports.

EDGERTON, MINN.—Estimates for the proposed works are being secured, according to reports.

ELMORE, MINN.—M. Masmeressen, Mayor, writes us that this place will decide within two weeks in regard to putting in works. Population, 1,500.

ELY, MINN.—David Brown, Cy. Clk., writes us that it is proposed to extend the works and build a stand pipe. At the last election it was voted to issue $2,000 in bonds for this improvement. It is not expected, however, that this amount will cover the cost. Frank Lowe, Cy. Electrician.

FERTILE, MINN.—John Holten, Mayor, writes us that as soon as some small changes in plans are made the council will ask for bids for building the works; this will probably be within two weeks. Engr., Chas. F. Loweth, 94 East Fourth St., St. Paul, Minn.

HILLS, MINN.—The question of building works, to cost about $1,200, is being considered, according to reports.

MAYNARD, MINN.—The council is reported as considering the question of building works.

MORRIS, MINN.—We are informed that this place will vote, May 17, on the question of building the proposed works, to cost about $25,000. There will be required five miles of mains, a steel tower and tank, etc. Engrs., Iowa Engineering Co., Clinton and Iowa City, Ia.; Engr., Chas. P. Chase, Iowa City; Pres., Anton Watzke.

HUDSON, S. DAK.—C. H. Cassill, of the committee, writes us that the proposed works will cost $5,000. Population, 500. J. B. Beardley and P. A. Onersesa are on the committee.

PALESTINE, TEX.—W. B. Johnson, Palestine, writes us that he and F. E. Holliday, Northampton, Mass., will organize a company with a capital stock of $100,000 to build works at this place. Bonds for this amount will be issued. They have a contract with the city for 50 years for $5,000 a year. Other contracts will also be made. The water supply will be from deep wells or from a lake a few miles from town. It is proposed to begin work soon. Some machinery has already been purchased, but they are in the market for more. Population, 14,000.

SAN ANTONIO, TEX.—Mayor Callaghan is urging the council to consider the advisability of building municipal works. Population, 50,000.

CORONA, CAL.—Ellwood Lilly, C. E., writes us the following machinery has been bought for the proposed improvements to the Tenescal Water Co. will include an Ingersoll air compressor of 45 HP., a 60-HP. boiler, a 16-HP. gas engine, a 15-HP. air compressor, about two miles of pipe, to cost $5,000. The construction is being done by day labor. The water to be pumped is for domestic and irrigation uses. This plant will be doubled if it gives satisfaction.

NAPA, CAL.—R. H. Sterling, Secy., writes us that the question of building works is only being considered. The trustees have engaged O. H. Buchanan to make surveys, etc. Mayor, J. A. Fuller.

SONORA, CAL.—Robt. A. Poppe, Cy. Clk., writes us that this place voted, April 26, against issuing bonds for works.

TUCSON, ARIZ.—The city clerk writes us that this city voted to issue $100,000 in bonds for municipal works and a sewerage system. L. D. Chilison, Cy. Engr.

SUMMERSIDE, P. E. I.—Richard Hunt, Chn. Com., writes us that the introduction of works and a sewerage system has been postponed. There is an almost unanimous sentiment favorable for municipal works. A bill was introduced last month in the legislature giving the city authority to grant a franchise to a company. The people petitioned against it and had it defeated.

LÉVIS, QUE.—It is proposed to build a reservoir, etc., for a water supply. J. E. Ray, Mayor.

RAT PORTAGE, ONT.—It is stated that the commissioners have awarded the following contracts for the proposed works, as advertised in Engineering News. Engr., J. Chalmers; Chn., R. Hall: Pumping plant, Jno. McDougall, Montreal, Worthington pump; pipes and specials, Gartshore-Thompson Pipe Foundry, Hamilton, Ont.; hydrants and valves, St. Lawrence Pipe Foundry, Toronto; excavation, Secretan & O'Boyle, Ottawa.

IRRIGATION.

HOLLISTER, CAL.—Reports state that it is proposed to irrigate the Tequesquito Ranch, owned by Claus Spreckles, by pumping water from Soap Lake.

LOGAN, UTAH.—County Surveyor Edward Hanson has been surveying the proposed route of the Trenton and Bear River canal, to be 21 miles long, and to irrigate about 30,000 acres in Cache county; estimated cost, about $25,000; according to reports. Address Bingham Bros., Trenton, Utah.

BOISE, IDAHO.—Dr. J. B. Puckett, Runnells, Ia.; has planned to construct an irrigation canal 27 miles long; estimated cost, $200,000.

NEW COMPANIES.—Hall-Slutz Irrigation Co., Abbeville, La.; $50,000; to construct irrigation canals; John J. Brown, New Orleans, La., Pres.; W. G. Hall, Abbeville, Vice-Pres.; A. E. Hall, Secy. and Treas.; W. H. Lovegrove, Thomas W. Slutz, C. H. Slutz.

Scandinavian Ditch Co., Alamosa, Colo.; $4,280; Gustave H. Anderson, Charles P. Carlson, Alfred Erlandson, Charles Arnell, Carl G. Backstrom, M. B. Colt.

Extension Ditch Co., Chinook, Mont.; $5,700; H. Kremer, R. Clarkson, David E. Martin.

Great Plains Water Co., Denver, Colo.; $500,000; to irrigate in the Arkansas Valley; J. A. Thatcher, William A Wiley, Benjamin B. Brown.

San Juan Valley Irrigation Co., Hollister, Cal.; $10,000, with $4,200 paid in; W. L. Freitas, J. J. Nutting, E. E. Bolton, Hollister; Bruce Ingles, Norman McKinnon.

Spring Creek Irrigating & Manufacturing Co., Coolidge, Kan.; C. M. Stanley, T. B. Mar, Lizzie A. Tapscott, Ollie Stanley, Jennie Martin.

Franklin Irrigating Co., El Paso, Tex.; John Summerfield, Louis W. Evans, J. A. Marquez.

Pamo Power & Water Co., San Diego, Cal.; $1,250,000; to irrigate, generate electrical power, etc.; Geo. F. Coats, Wm. G. Talcott, Los Angeles; G. D. Tantau, James P. Jones, W. S. Hebbard, San Diego.

SEWERAGE.

BANGOR, ME.—Wm. Constantine submitted the lowest bid May 5 for constructing 2,500 ft. of 15 and 12-in. pipe sewer on the west side, at $2,106.

RANDOLPH, VT.—J. A. Fowler, of the committee, writes us that action will be taken at once on the proposed system. Bids for the work have not yet been asked. H. McIntyre, Engr.

WINOOSKI, VT.—F. L. Lensenmerir writes us that this place voted, May 7, to issue $28,000 in bonds for constructing a system. Plans and specifications are ready, and bids for the work will soon be asked.

PROVIDENCE, R. I.—Bids are asked until May 14 for constructing 460 ft. of 28 to 18-in. brick and about 9,200 ft. of 18 to 8-in. pipe sewers. Robert E. Smith, Comr. Dept. Pub. Wks.

ALBANY, N. Y.—Bids are asked until May 16 for constructing a 10-in. pipe sewer in Livingston Ave. Thos. J. Lanahan, Clk. Bd. of Contract.

BUFFALO, N. Y.—Bids are asked until May 19 for constructing 12 and 10-in. pipe sewers, etc., in Jefferson St. R. G. Parsons, Secy. Dept. Pub. Wks.

CAMDEN, N. Y.—The question of building a system is being considered, according to reports.

JOHNSTOWN, N. Y.—M. S. Northrup, of the Health Board, writes us that no definite plans have yet been decided upon in regard to the proposed new sewers.

NEW ROCHELLE, N. Y.—Bids are asked until May 21 for constructing an outlet sewer and also a tunnel and sewer, as stated in our advertising columns. Engr., J. K. Wilkes, New Rochelle; Pres. Comrs., Jno. Q. Underhill.

SAG HARBOR (L. I.), N. Y.—Press reports state that the bill amending the village charter has been signed by the governor. The amendment gives the trustees authority to borrow a sum not to exceed $70,000 for establishing a system, not more than $2,500 to be levied and collected in any one year, for any and all purposes, except for street and sewer expenses.

TROY, N. Y.—Bids are asked until May 17 for constructing a 12-in. pipe sewer in 10th St. E. Ogden Ross, Secy.

ELIZABETH, N. J.—Bids are asked until June 1 for constructing about 1,760 ft. of 60 and 48-in. brick sewer and 420 ft. of 20-in. pipe sewer, etc. N. K. Thompson, St. Comr.

PATERSON, N. J.—It is proposed to construct about 5,000 ft. 18 to 12-in. pipe sewers in a number of streets. Thos. McLean, Cy. St. Comr.

SOUTH ORANGE, N. J.—The village trustees have been requested by the board of health to hasten the construction of the proposed system.

DUQUESNE, PA.—We are informed that a number of lateral sewers will be put in this summer. Engr., S. A. Taylor, 339 5th Ave., Pittsburg.

GREENVILLE, PA.—S. K. Keck, Secy., writes us that the borough will not lay sewers unless the property owners along the lines will agree to pay cost. On account of non-agreement there has been some delay. About 300 ft. of sewer will be built in one street at once, however.

MEADVILLE, PA.—Bids are asked until May 25 for constructing a storm-pipe sewer, as stated in our advertising columns. D. T. McKay, Jr., Cy. Clk.; W. A. Doane, Cy. Engr.

NARBETH, PA.—John B. Closhier, Secy. Narbeth Sewerage Co., writes us that the proposed system which it proposes to build will have five miles of 24 to 8-in. pipe sewers; average cut, about 6 ft. The company was incorporated last year, with a capital stock of $30,000. Engr., Chester B. Brewer, Philadelphia.

SWISSVALE, PA.—The Swissvale Sewer Co. has been incorporated, with a capital stock of $2,000, by R. W. Cummins, D. B. Little, Jos. A. Hays and others, of Swissvale.

TARENTUM, PA.—This place will probably extend its system soon. Engr., S. A. Taylor, Pittsburg, Pa.

UNIONTOWN, PA.—Bids are asked until May 16 for constructing 3,800 ft. of 24 to 15-in. pipe sewers. Cooper & Van Severingen, Borough Solicitors.

CAMBRIDGE, MD.—Bids are asked by the city clerk until May 18 for the purchase of $8,000 of 5% bonds for the system now under construction.

CAMBRIDGE, O.—Bids are asked until June 4 for constructing about 17,200 ft. of pipe sewers, as stated in our advertising columns. T. R. Deselm, Cy. Clk.; A. L. White, Consult. Engr., Wheeling, W. Va.; O. M. Hoge, Cy. Engr.

CINCINNATI, O.—Frank S. Krug, County Engr., has prepared estimates for the proposed 4-ft. brick sewer in Longview Ave., to cost about $10,108, or if of pipe, to cost $7,435.

CLEVELAND, O.—Bids are asked until May 20 for constructing sewers in five streets, and until June 3 for constructing sewers in two streets. Geo. R. Warden, Dir. Pub. Wks.——The following bids were received April 29 for constructing sewers in two streets; Edward A. Roberts, Secy Bd. of Control:

	Lake Ave.	Desmond St.
A. G. Hausmann	$61,680	$55,409
Campbell Bros	62,569	44,256
Clements Bros	66,715	53,105
C. H. Burgess	66,829	....
J. Connelly & Son	67,409	48,112
Ford P. Beers	68,928	54,026
F. E. Gribben	70,482	....
L. H. Fahey	72,380	41,625
N. Ohio Paving & Const. Co	73,417	63,430

VAN WERT, O.—The council is reported to have decided to spend $60,000 for constructing sewers and paving certain streets.

MARION, IND.—Bids are asked until June 7 for constructing the proposed system, to cost about $57,000. (Postponement from May 23.) Cy. Engr., L. M. Overman.

UNION CITY, IND.—S. R. Bell, Mayor, writes us that it is proposed to construct 1,750 ft. of 24-in. pipe sewers for an outlet; average cut, 7 ft.

DANVILLE, ILL.—J. H. Palmer, Danville, submitted the lowest bid, May 5, for constructing the sewers at this branch of National Home for Disabled Soldiers, at $8,940.

ANACONDA, MONT.—J. A. Hasley has been awarded the contract for constructing sewers in two districts, at $4,660, and for a main sewer, at $3,548.

EL PASO, TEX.—This place is reported to have voted to issue $15,000 in 6% 40-year bonds for extending the system.

TUCSON, ARIZ.—The city clerk writes us that this city voted, May 5, to issue $100,000 in bonds for a system and water-works.

SPOKANE, WASH.—C. B. Dunning, Councilman from the 5th Ward, writes us that plans and specifications for sewering the 5th Ward have not yet been submitted by the board of public works. The contract will not be let before September or October.

PALO ALTO, CAL.—We are informed that this place voted, by eight votes, April 28, against issuing $20,000 in bonds for the proposed system. A report states that a system may be built by direct taxation.

SUMMERSIDE, P. E. I.—Richard Hunt, Chn. Com., writes us that the introduction of a system and waterworks has been postponed.

GARBAGE DISPOSAL—STREET CLEANING

SEWICKLEY, PA.—It is probable that the question of building a garbage disposal plant will be voted upon soon. Chas. F. Nevin, Pres. Council.

NEWPORT NEWS, VA.—Bids are asked until May 17 for collecting and removing the garbage and waste of the city for one year from June 1. Bids are also asked until May 14 for collecting and removing the night soil for one year from June 1. Dr. S. W. Hobson, Health Officer; J. A. Massie, Cy. Clk.

CANTON, O.—The board of health has asked the council to order the construction of a garbage disposal plant. Mayor Rice and Mr. Fielding, of the board, may be addressed.

STREETS AND ROADS.

HOLYOKE, MASS.—Bids are asked until May 20 for brick paving, as stated in our advertising columns. M. F. Walsh, Chn. Bd. Pub. Wks.; Oscar C. Ferry, Asst. Clk.

QUINCY, MASS.—An ordinance is before the council for an appropriation of $25,000 for the construction of about 24,404 lin. ft. of concrete sidewalk.

EAST HAVEN, CONN.—Bids are asked until May 14 for improving roads. John S. Tyler, First Selectman.

PUTNAM, CONN.—Bids are asked until May 18 for grading and macadamizing the Pomfret Road. C. D. Torry, First Selectman.

SEYMOUR, CONN.—Bids are asked until May 16 for improving roads. W. W. Smith, First Selectman.

SOUTH NORWALK, CONN.—Bids are asked until May 23 for about 2,500 sq. yds. of brick paving and relaying about 1,400 ft. of curb. C. N. Wood, Engr.; Joseph R. Taylor, Cy. Clk.

ALBANY, N. Y.—Bids are asked until May 16 for brick paving, etc., according to estimates given in our last issue, and for constructing a plank walk in Sherman St., two sureties each of $5,000 and $350 respectively. Thos. J. Lanahan, Clk. Bd. Contract.

ALBANY, N. Y.—Bids are asked, until May 14, for repairing street pavements. A. W. Woolverton, St. Comr.

AUBURN, N. Y.—The council has decided to appropriate $16,000 for street work, and will probably pave State St. with brick from Genesee St. to the bridge.

BUFFALO, N. Y.—The Barber Asphalt Paving Co., New York, has been awarded a contract at $23,307 for resurfacing in Pearl St. with asphalt. The following are the lowest bids received by the board of public works, May 5, for asphalt paving: Barber Asphalt Paving Co., Northampton St., $6,575, North Parade Ave., $6,317; Portage St., $2,475; German Rock Asphalt Co., Sycamore St., $4,567. A resolution has been passed to pave in Hanover St. and Gallatin Ave. with stone, Mohawk St. with Alcatras asphalt, and South Cedar St. with Trinidad Lake asphalt.

NEW YORK, N. Y.—Bids are asked until May 16 for furnishing about 18,170 cu. yds. of gravel, and until May 19 for about 1,030 cu. yds. of limestone screenings. George C. Clausen, Comr. Dept. Parks, Arsenal Bldg., Central Park.

GRAND ISLAND, N. Y.—Several roads will be macadamized this year by the township.

NORWICH, N. Y.—Petitions have been presented to the village trustees for paving portions of Main and Broad Sts. with either brick or asphalt. Henry P. Allen has been engaged to prepare plans. E. F. Musson, Cy. Engr.

TROY, N. Y.—Frank Besch has been awarded a contract to pave Maple Ave. from Pawling Ave. to Lansing with Catskill brick, at $3,784.

UTICA, N. Y.—Bids are asked until May 13 for sheet asphalt paving in Leah St., Eagle St. and Sunset Ave. J. A. Cantwell, Cy. Clk.

CAMDEN, N. J.—Bids are asked until May 23 for asphalt paving in certain streets, as stated in our advertising columns. L. E. Farnham, Cy. Engr.; Wm. Z. Gibson, Chn. Com.

VAILSBURG, N. J.—Bids are asked until May 18 for laying artificial stone sidewalks, as stated in our advertising columns. Borough Engr., E. A. MacMurray, Clinton Bldg., Newark; Clk., Wm. Billington.

CHESTER, PA.—Bids are asked by the council committee on streets, until May 16, for paving Edgmont Ave., from 15th to 24th St., with brick. Frank W. Harrison, Cy. Clk.

CURWENSVILLE, PA.—About 4,000 sq. yds. of brick paving will be laid this season. W. A. Moore, Cy. Engr.

DORRANCETON, PA.—Plans have been prepared for about 4,000 ft. of brick paving, 60 ft. wide, in Wyoming Ave. W. B. Rutter, Borough Engr., Wilkesbarre.

ERIE, PA.—Bids are soon to be asked for paving Parade St. from Fifth to Sixth St. with brick. Benj. E. Briggs, Cy. Engr.

LOCK HAVEN, PA.—The council has appropriated $10,000 for paving.

LUZERNE, PA.—Brick paving will be constructed in Main St. Thomas Wright, Borough Engr.

MAHANOY CITY, PA.—A contract has been awarded to Smith & Campion, Mahanoy City, for brick paving, at an estimated cost of about $45,000.

MEADVILLE, PA.—Bids are asked until May 25 for brick paving, as stated in our advertising columns. D. T. McKay, Jr., Cy. Clk.

PITTSBURG, PA.—The county commissioners awarded a contract, May 6, to Booth & Flynn, at $50,765, for improving the White Oak Level Road, and to J. C. McSpadden, at $21,214, for work on the River Road for 1½ miles.

READING, PA.—H. H. Hammer, Cy. Clk., informs us that plans are being prepared by S. S. Hoff, Cy. Engr., for sheet asphalt paving in 12 streets. Jacob Weidel, Mayor.

UNIONTOWN, PA.—Bids are asked, until May 16, for about 5,000 cu. yds. of excavation, 5,600 lin. ft. of curbing and 9,200 sq. yds. of paving on sundry streets. S. W. Henshaw, Borough Engr.

BALTIMORE, MD.—The board of public works has approved an ordinance for $53,000 worth of asphalt block paving in Fulton Ave.

WASHINGTON, D. C.—A contract has been awarded by the district commissioners to the Crawford Paving Co. for the repair of asphalt pavement for two years.

LYNCHBURG, VA.—Bids are asked, until May 20, for constructing about 4,300 sq. yds. of brick or stone sidewalks in portions of seven streets. L. P. Rodes, Cy. Engr.

SEVIERVILLE, TENN.—M. J. Condon, Knoxville, was awarded a contract, May 4, at $37,494, for constructing the Knoxville and Sevierville pike road.

MONTGOMERY, ALA.—Bids are asked, until May 16, for brick paving and constructing sidewalks in Holcombe St., from Clayton to Mildred St. R. H. Sommerville, Treas.

CAMBRIDGE, O.—Bids are asked, until June 4, for brick paving, grading, etc., as stated in our advertising columns. T. R. Deselm, Cy. Clk.; O. M. Hoge, Cy. Engr.

CARTHAGE, O.—We are informed that the Hamilton pike road will be macadamized, etc., estimated cost, $14,000.

CINCINNATI, O.—Ordinances have been passed for grading four streets. Edwin Henderson, Cy. Clk.

CLEVELAND, O.—Bids are asked, until May 24, for grading, curbing and draining in Mandrake St. Geo. R. Warden, Dir. Pub. Wks.——The council has passed resolutions for brick paving, grading, curbing, etc., in portions of five strets. Howard H. Burgess, Cy. Clk.

LIMA, O.—Bids are asked, until June 9, for 30,000 sq. yds. of brick paving in South Main St. C. E. Lynch, Cy. Clk.

MARIETTA, O.—The council has authorized the paving of portions of Montgomery, Washington and Scammel Sts. with brick. Philip Bachmann, Pres. Council; Carl Becker, Cy. Clk.

MASSILLON, O.—Bids are asked, until May 20, for the construction of curbing and guttering of West Tremont, East and North Grant Sts. and Richmond Ave. J. C. Haring, Cy. Clk.

TOLEDO, O.—Fassett St. will be paved from the bridge to Oak St. Gustave Abele, Pres. Council; L. P. Harris, Cy. Clk.

YOUNGSTOWN, O.—Scott St. will be improved between Elm St. and Belmont Ave. A. L. Rowland, Pres. Council; F. C. Brown, Cy. Clk.

EVANSVILLE, IND.—Bids are asked until May 21 for brick and asphalt paving, according to reports. Geo. W. Swearinger, Clk. Bd. Pub. Wks.

SOUTH BEND, IND.—Bids are about to be asked by the council for paving Franklin, Joseph and North Michigan Sts. with brick, and La Fayette St. with asphalt. Sample St. and William St. will also be paved with brick later on. The estimate of the whole is 80,000 sq. yds. of brick and 12,000 sq. yds. of asphalt. W. H. Rosencrans, Cy. Engr.

WASHINGTON, IND.—Jean & Jean, Worthington, have been awarded a contract to construct seven miles of macadam road in Washington township, at $19,000. A contract was let May 5 to Davis & Archer, Bellaire, O., at $31,164, to construct 21 squares of brick streets.

BAY CITY, MICH.—Estimates for paving Center Ave., to cost $39,536, have been approved by the council.

PEORIA, ILL.—Bids are asked until May 18 for furnishing 7,000 lin. ft. of curbstone, as stated in our advertising columns. M. W. Manning, Comr. Pub. Wks.; A. D. Thompson, Cy. Engr.

CROOKSTON, MINN—Bids are asked until May 22 for about four miles of grading, according to reports. George Ralph, C. E.; J. W. Wheeler, County Comr.

ST. PAUL, MINN.—Bids are asked until May 19 for constructing a boulevard on Grand Ave. from Floral St. to Grotto St. C. H. Bronson, Clk. Bd. Pub. Wks.

OSKALOOSA, IA.—D. C. Waggoner, Cy. Clk., informs us that contracts will be let about May 25 for about two miles of brick paving in this city.

BUTTE, MONT.—Bids will be received about May 25 for constructing about 20,000 sq. yds. of granite block pavement on concrete foundation. F. W. Blackford, Cy. Engr.

INDEPENDENCE, MO.—S. H. Woodson, Mayor, writes us that about 7,500 sq. yds. of brick or asphalt paving will be constructed; estimated cost, $15,000. H. H. Pendleton, Cy. Engr.

MINNEWAUKON, N. DAK.—Bids are asked until May 23 for grading and for furnishing a number of road scrapers, according to reports. J. D. Drummond, County Audr.

COLLINGWOOD, ONT.—We are informed that 4,000 sq. yds. of cement pavement will be constructed; estimated cost, $5,600. John Hogg, Town Clk.

MANUFACTURING PLANTS.

SANDY HILL, N. Y.—Bids are being received, according to reports, for the erection of a 2-story brick and iron paper mill for the Holland Paper Co., to cost about $80,000. Archs., Tower & Wallace, 1123 Broadway, New York.

BENVENUE, PA.—The Duquesne Reduction Co.'s works at this place were destroyed by fire, May 5, causing a reported loss of $10,000. Supt., George West.

PITTSBURG, PA.—Phillips & McLaren, of Pittsburg, writes us that they will erect a new steel building, 264 × 80 ft., to replace the one destroyed by fire April 6. It is desired to purchase some 12 to 18-in. small lathes, 18 to 24-in. shapers, 1½ to 2-in. screw cutter and an 8 or 10-in. boring mill; second-hand, if in good order.

CEDARTOWN, GA.—The Paragon Mills Co. has been organized, with a capital stock of $50,000, to manufacture cotton goods. It is expected to erect at once a mill, 110 × 250 ft., and to equip it with about 7,000 spindles. Pres., M. O. Berry, Columbus, Ga.; Secy., A. W. Birkbeck, of Cedartown.

MERIDIAN, MISS.—It is reported that the Eagle Cotton Oil Co. will erect a new main factory building, 70 × 100 ft. with several smaller buildings. A 250-HP. power plant has still to be contracted for.

YOUNGSTOWN, O.—Reports state that plans are now being perfected for the improvements to the Ohio Steel Co.'s plant, including the erection of two large blast furnaces.

DETROIT, MICH.—The plant of the Detroit Soap Co., at Dix Ave. and 25th St., was destroyed by fire, May 7, causing a reported loss of $100,000; insurance, $80,000. It is said that the works will be rebuilt.

CHICAGO, ILL.—A fire in this city, May 4, destroyed the felt works and curled-hair building near Armour's glue factory, at 31st and Benson Sts., causing a reported loss of $225,000.

WINNIPEG, MAN.—Reports state that E. F. Hutchings will erect a 5-story brick and stone factory building, 137 × 50 ft., estimated to cost $40,000.

GAS PLANTS.

CORTLAND, N. Y.—The trustees are considering the question of granting a franchise to F. H. Morse to operate a gas system in Cortland and Homer.

COHOES, N. Y.—The council has awarded to the Cohoes Gas Light Co. a contract for lighting by means of arc lamps for three years, according to reports.

LOCKPORT, N. Y.—E. E. Witherby, Supt. Lockport Gas & Electric Light Co., writes us that a contract has been let for the construction of a steel tank of 150,000 cu. ft. capacity; also that plans are being prepared for the installation of new purifying boxes and two new scrubbers. The question of constructing a coal handling and storage plant and a coke crushing plant is being considered.

LEBANON, PA.—A plant will be constructed by the Liquefied Acetylene Supply Co. in North Lebanon township for the manufacture of liquefied acetylene.

MENOMINEE, WIS.—Reports state that the secretary of the interior has authorized the construction of a gas plant to cost $1,000 for the Indian school at this place.

URBANA, ILL.—Reports state that the Urbana & Champaign Railway, Gas & Electric Co. will construct a gas holder of about 50,000 cu. ft. capacity, and will lay four miles of 4-in. mains this year. N. M. Harris, Secy. and Mgr.

GRIDLEY, CAL.—It is reported that the Gridley Electric Light Co. has applied to the county commissioners for a franchise to lay conduits for gas or electricity.

NEW COMPANIES.—Calcium Light Gas Co., Lincoln, Neb.; $10,000; Jacob M. Hill, George T. Rumpolly, Edward Walsh and L. L. Abbott.

Camden Oil & Gas Co., Camden, N. Y.; to sink oil and gas wells in Oneida and adjacent counties; $4,000; Lyman P. Haviland, Russell S. Johnson, John G. Dorrance, Camden, and others.

Eulalia Gas Co., Coudersport, Pa.; $60,000, with $6,000 paid in; to supply natural gas; D. R. Cobb, L. B. Seibert, Fred H. Raymond, Frank A. Raymond, Treas., Coudersport, Pa.

Herkimer County Light & Power Co., Herkimer, N. Y.; $400,000; the consolidation of the Herkimer Gas & Electric Co., Little Falls, and the Ilion and Mohawk Gas Light Co.

Kansas Acetylene Gas & Calcium Carbide Co., Topeka, Kan; $500; J. B. Raisebaum, H. F. Bird, William S. Chaney, A. B. Pomeroy, H. C. Bowman.

Trenton Gas Light Co., Trenton, Mo.; M. S. Cartan, H. M. Beardsley, James C. Reed and others.

MISCELLANEOUS CONTRACTS.

TELEPHONE CONDUITS.—New Albany, Ind.—The Home Telephone Co. will place its wires in conduits.

CEMENT.—Pittsburg, Pa.—Bids are asked, until May 14, for furnishing about 2,150 bbls. of cement. W. E. Thompson, County Controller.

TELEPHONE SYSTEM.—Fairport, N. Y.—It is reported that a franchise has been granted to Austin Devoe to operate a telephone system.

SEA WALL.—Boston, Mass.—Bids are asked, until May 20, for constructing a sea wall on Congress St., surety $500. William Jackson, Cy. Engr.

TELEPHONE SYSTEM.—Lyons, N. Y.—A franchise has been granted to the Citizens' Telephone Co. by the village trustees to operate a system.

TELEPHONE LINE.—Dunham, Ont.—Bids are asked by the Electric Light Co. for constructing a telephone line to Aberdeen, according to reports.

PARK WORK.—Wilmington, Del.—The committee of the council has recommended that about $16,000 be expended in improving Brandywine Park.

TELEPHONE LINE.—Cambridge, Minn.—The Northwestern Telephone Exchange Co. will construct a line from this place to St. Francis, a distance of 15 miles.

TELEPHONE SYSTEM.—Battle Creek, Mich.—The Calhoun County Telephone Co. has been granted a franchise to construct and operate a system through the city.

TELEPHONE CONDUITS.—New Britain, Conn.—The Southern New England Telephone Co. has asked the council for permission to lay about 85,000 ft. of conduits.

METAL.—Washington, D. C.—Bids will soon be asked by the navy departmene for furnishing about 7,700 tons of armor for three battleships, not to cost over $400 a ton.

RIVER AND CANAL WORK.—Buffalo, N. Y.—Plans are being prepared by V. E. Bardo, Cy. Engr., for deepening and widening the Buffalo River and filling the Hamburg Canal.

RIVER WORK, ETC.—Chicago, Ill.—Bids are asked, until June 29, for certain river work, removing dams, building a concrete dam, conduits, etc., as stated in our advertising columns. Jas. Reddick, Clk. Bd. Drainage Trustees, Security Building.

CONTRACT PRICES.

ROAD.—Lowell, Mass.—We are informed that the following bids were received April 28 for building a road in Lowell; A. B. Fletcher, Secy. Massachusetts State Highway Commission, Boston; contract awarded Asa Goddard:

Quantities.		Asa Goddard, Worcester.	A. J. Wellington, Boston.
Excavation	90 cu. yds.	$0.40	$0.70
Ledge	2 " "	2.00	5.00
Rubble mas'ry in cement	3 " "	8.00	10.00
Gravel	1,380 " "	.65	.60
Shaping	7,306 " "	.02	.02
Broken stone in place	1,918 tons	1.85	2.00
18-in. vitrified clay pipe	50 lin. ft.	1.00	1.00
8-in. " " "	45 " "	.50	.40
Side drains	600 " "	.35	.45
Finishing bet. limits	Labor, hour	.20	.20
	Dbl. teams	.50	.50
	Single t'ms	.35	.35
Stone monuments	11 each	1.50	1.50
Catchbasins	3 "	25.00	25.00
Total		$5,029	$5,343

GRADING, ETC.—Milton, Mass.—W. F. Bates, Engr. for Street Widening Com., informs us that the following bids were received April 30 for grading and improving six miles of road, as advertised in Engineering News:

Bids Received at Milton, Mass., April 30, for Grading and Improving Six Miles of Road.

Bidder.	Earth grading, 55,000 cu. yds.	Rock grading, 2,100 cu. yds.	Filling material, 6,000 cu. yds.	8-in. drain, 4,000 lin. ft.	10-in. drain, 3,000 lin. ft.	12-in. drain, 2,000 lin. ft.	6-in. French drain, 4,000 lin. ft.	8-in. French drain, 2,000 lin. ft.	Brick masonry, 250 cu. yds.	Rubble masonry, 1,000 cu. yds.	12-in. loam surfacing, 11,000 cu. yds.	6-in. broken stone surfacing, 85,000 sq. yds.	8-in. gravel surfacing, 45,000 sq. yds.	Total.
D. O'Connell & Son, Holyoke, Mass.	$0.35	$1.25	$0.40	$0.22	$0.30	$0.40	$0.34	$0.40	$12.00	$2.50	$0.10	$0.50	$0.30	$94,670
E. D. Bell, 24 Warren St, Roxbury	.42	2.00	.68	.62	.75	.82	.96	1.00	14.75	3.80	.16	.38	.20	99,668
T. J. Kelly, Warren St., Brookline.	.35	1.00	.50	.25	.35	.45	.30	.30	14.00	2.00	.08	.57	.20	95,430
F. X. Saucier, 17 Otis St., Boston..	.38	1.40	.35	.28	.35	.45	.55	.60	14.00	3.00	.12	.64	.20	108,780
T.W. Kinser & Sons, Waltham, Mass.	.25	1.00	.50	.18	.25	.29	.40	.45	11.00	2.00	.10	.34	.29	73,840
J. D. Gennaro, 28 School St., Boston	.39	.60	.58	.18	.23	.28	.80	.80	14.00	3.25	.14	.35	.22	83,888
A. J. Wellington, Boston	.40	2.00	.45	.25	.35	.45	.75	.80	14.00	3.00	.10	.50	.15	97,650
D. E. Lynch & Co., Dorchester....	.30	1.50	.50	.20	.28	.36	.90	.90	12.00	2.00	.30	.53	.30	100,960
Long & Little, Leominster, Mass ..	.40	1.00	.65	.20	.30	.40	.40	.50	13.00	1.75	.10	.45	.20	88,913
H. Gore & Co., 54 Kilby St., Boston.	.30	1.00	.44	.20	.20	.20	.30	.30	12.00	2.00	.10	.48	.35	89,990
McCusker Bros., Waltham, Mass. ..	.30	1.50	.50	.25	.30	.40	.45	.50	12.00	2.75	.08	.50	.20	89,793
W. H. Mague, West Newton, Mass..	.25	1.00	.40	.20	.25	.30	.40	.45	12.00	2.50	.08	.38	.15	71,535

LEVEE WORK.—New Orleans, La.—Bids will be received about June 9 for the construction of about 1,000,000 cu. yds. of levee work, according to reports. Maj. B. Quinn, U. S. Engr.

TELEPHONE SYSTEM.—Luverne, Minn.—A franchise has been granted to E. A. Brown, G. W. Millhouse, F. W. George, Jay A. Kennicott and A. D. LaDue, to establish a telephone system.

CULVERT, DRAIN, ETC.—Cleveland, O.—The board of control has recommended awarding a contract to M. I. De Celle, at $4,979, for constructing a culvert and grading and draining in Kimmel St.

HYDRAULIC LIFT LOCK.—Peterborough, Ont.—Bids are asked, until May 31, for constructing a hydraulic lift lock for the Trent Canal at this place. L. K. Jones, Secy., Dept. Rys. and Canals, Ottawa.

TELEPHONE EXTENSION.—West Chester, Pa.—The Chester County Telegraph & Telephone Co. is arranging to extend its line from West Chester to Oxford, via Kennett Square, Avondale and West Grove.

TUNNEL.—Detroit, Mich.—Reports state that Hugh McMillan, Albert Pack, Fred. T. Morgan, Thomas S. Jerome and others are about to organize a company with a capital stock of about $2,000,000, to construct and operate a tunnel between Union and Brush St. depots, for freight purposes, under a franchise.

GRANITE BLOCK PAVING.—New London, Conn.—We are informed that the following bids were received by Geo. K. Crandall, Cy. Engr., for granite block paving, the prices being exclusive of grading; the contract was awarded William Booth:

Bidders.	State St., with sand foundation, 2,000 sq. yds.	Hamilton St., with 6-in. con. foundtn, 500 sq. yds.	Hamilton St., curb, granite, 220 lin. ft.	Hamilton St., walk, asp. composition, 660 sq. ft.	Total.
Casey & Sherwood	$1.50	$2.10	$0.50	$0.08	$4,213
William Booth	1.49	1.99	.55	.10	4,162
Flint Granite Co.	1.69	2.22	.55	.08	4,664
C. W. Blakeslee & Sons.	1.63	2.25	.58	.08	4,565
Williams & Dewhurst Co	1.73	2.35	.60	.06½	4,823
B. D. Pierce, Jr., Co.	1.92	2.75	.55	.08	5,389
F. E. Shaw	1.8[illegible]	2.50	.65	.07	5,039

SEWERS.—Malden, Mass.—We are informed that the following bids were received April 30 by the Metropolitan Sewerage Commission, Boston, for constructing sewers in section 55, Malden and Everett:

Bids Received at Boston, Mass., April 30, for Constructing Sewers in Section 55, Malden and Everett.

Bidder.	Excav. and refill, 15-in. pipe s'w'r, 1,550 lin. ft.	Masonry. Brick. American, 40 cu. yds.	Brick. Portland, 5 cu. yds.	Concrete. American, 100 cu. yds.	Concrete. Portland, 60 cu. yds.	Total.
Benjamin P. Bill, Malden, Mass.	$2.39	$12.00	$14.00	$6.00	$7.25	$5,290
Patrick Sullivan, Malden, Mass.	2.30	11.25	12.75	6.50	8.00	5,209
Bruno & Salomone, East Boston, Mass.	2.25	14.00	16.00	6.00	7.25	5,163
Aab & Co., Waltham, Mass.	2.21	12.44	14.44	5.30	6.90	4,939
H. A. Hanscom & Co., West Medford, Mass.	1.75	13.00	14.50	5.50	6.50	4,245
P. & F. E. McCarthy, Boston, Mass.	1.46	13.50	16.50	7.00	8.50	4,096
A. W. Bryne Construction Co., Boston, Mass.	1.30	14.00	16.00	6.00	7.00	3,675

REMOVING WRECK.—Wilmington, Del.—Bids are asked, until June 7, for removing the wreck of a barge in the Elk River, as stated in our advertising columns. Wm. F. Smith, U. S. Agent, Wilmington.

TUNNEL, ETC.—New Rochelle, N. Y.—Bids are asked, until May 21, for constructing a tunnel and sewer, as stated in our advertising columns. Engr., J. K. Wilkes, New Rochelle; Pres. Comrs., J. Q. Underhill.

GRADING.—Cleveland, O.—Bids are asked by the board of park commissioners, until May 18, for grading in Wade Park and in Rockefeller Park; two bonds of $5,000 each. C. A. Pratt, Jr., Ch. Engr., Hickox Bldg.

TUNNEL.—Scranton, Pa.—Bids are asked until May 25 for excavating a tunnel and sinking one or more shafts for the Scranton Gas & Water Co., as described in our advertising columns. Engr., Wm. M. Marple; Secy. and Treas., G. B. Hand.

DREDGING.—Connecticut River, Conn.—The following bids were received May 6 for dredging in the Connecticut River, as advertised in Engineering News; Maj. Smith. S. Leach, U. S. Engr., New London:

Bidder.	About 100,000 cu. yds.
John P. Remderson, 62 Quincy St., Albany, N. Y.	$0.08
Hartford Dredging Co., Hartford, Conn.	.07½
Edward F. Daily, 44 Court St., Brooklyn, N. Y.	.14⅜
Morris & Cumings Dredging Co., 22 State St., N. Y.	.15

BRICK PAVING.—Leechburg, Pa.—We are informed that the following bids were opened April 26 for improvement of Main St., by 2,200 yds. excavation, 5,500 sq. yds. of brick paving, 3,000 ft. new curb, 300 ft. curb reset; contract awarded to Kirkwood & Willard; Park brick adopted; totals on basis of Park brick; Park and Mack are fire brick, and Kountz red shale; Engrs., Wilson & Smith, Saltsburg, Pa.:

Bids Received at Leechburg, Pa., April 26, for Brick Paving.

Bidder.	Grading.	2 ins. sand. Park.	2 ins. sand. Mack.	2 ins. sand. Kountz.	Brick, on 8 ins. gravel, in place.	New 6-in. curb, in place.	Curb reset.	Total.
F. G. Ward, Allegheny, Pa.	$0.20	$0.96	$1.05	$0.98	$0.38		$0.18	$6,914
Smith & Wood, Tarentum, Pa.	.27½	.95½	.94½	...	.38½		.09½	7,041
Geo. M. Getze & Co., Tarentum, Pa.	.24	.94½	.94½	...	.38		.15	6,910
Funkhouser & Coates, New Brighton, Pa.	.25	1.03	1.02	.93	.36½		.12	7,346
Sweney & Houston, Pittsburg, Pa.	.24	.98	.98	.87	.39		.20	7,148
Ott Bros., Allegheny, Pa.	.23	.95	.96	.85	.41		.15	7,006
James McAfee & Co., Allegheny, Pa.	.18	.93½	.94½	.84	.40		.20	6,799
Kirkwood & Willard, Apollo, Pa.	.23	.93½	.92½	.83½	.37½		.05	6,788

TELEPHONE IMPROVEMENTS.—Akron, O.—Reports state that the Central Union Telephone Co. has issued $300,000 in bonds for the improvement of its system, and is to make many changes in this place.

NAVAL CONSTRUCTION.—Norfolk, Va.—The naval appropriation bill for this year asks for the following improvements: Extension of quay wall, $30,000; construction plant, $40,000; extending railway tracks for traveling crane, $13,000; grading and paving, $10,000; a wet-dock; repairs, etc., $50,000.

FIRE HYDRANTS.—Los Angeles, Cal.—C. H. Hance, Cy. Clk., writes us that the following bids were received April 25, for furnishing 30 fire hydrants: Union Hardware & Metal Co., P. O. Box 412, Station C., L. A., California 2½-in. hydrants, single nozzle, $33.00 each; 2½-in. double nozzle, $36.50; Ludlow 2½-in. single nozzle, $24.00; Ludlow 2½-in. double nozzle, $27.50. Harper & Reynolds Co., Los Angeles, cast-iron Eclipse, $15.50 each; Boston Woven Hose & Rubber Co., San Francisco, S. F. style, single nozzle, $22.50 each; double nozzle, $28.00; 4 auxiliary gates for

these hydrants at $10.00 each; Loetzer compressional hydrant, single nozzle, $26.00; double nozzle, $27.50; Loetzer gate valve hydrant, single nozzle, $26.00; double nozzle, $27.50. M. Grenberg's Sons, 225 Beale St., San Francisco, cast-iron hydrants, single outlets, $23.75 each; double nozzle, $27.25 each.

HIGHWAY.—Boston, Mass.—We are informed that the following bids were received by the Metropolitan Water Board May 4, for excavating and building a road at the Wachusett Reservoir, as advertised in Engineering News:

Bids Received at Boston, Mass., May 4, for Excavating and Building a Road at the Wachusett Reservoir.

Bidder.	Earth excavation, 152,500 cu. yds.	Rock excavation, 3,720 c.yds.	Over-haul (hauled 100 ft.) 450,000 cu.yds.	Slope pav'g, 2,360 cu.yds.	Rip-rap, 150 cu.yds.	Masonry laid in mortar, 550 cu.yds.	Laying 16-in. c.i. for drains, 30 lin.ft.	Laying sewer pipe. 10-in., 12-in., for drns & clvrts, 390 lin.ft.	Laying sewer pipe. 12-in., for clvrts, 110 lin.ft.	Laying sewer pipe. 15-in., drains, 320 lin. ft.	Laying sewer pipe. 20-in., drains, 1,050 lin. ft.	Laying sewer pipe. 24-in., drns & clvrts, 320 lin. ft.	Catch-basins, 3, each.	Man-holes, 2, each.	Lumber in place, bridge, 28 M. ft. B.M.	Total.
T. H. Riddle & Co., New York	$0.18	$1.00	$0.008	$0.80	$1.50	$4.00	$0.70	$0.15	$0.15	$0.15	$0.20	$0.20	$30.00	$25.00	$35.00	$40,421
Cenedella Bros., Milford, Mass.	.15⅝	1.10	.0049	1.35	.74	6.00	.35	.09	.09	.10	.12	.15	50.00	26.00	40.00	42,499
Jos. D. Gennaro, Boston, Mass.	.20	.90	.01	1.50	1.00	5.25	.50	.09	.12	.15	.17	.18	30.00	30.00	30.00	46,263
R. M. Quigley & Co., St. Louis, Mo.	.21	.90	.008	1.20	.60	7.00	.50	.25	.25	.25	.25	.25	45.00	17.00	32.00	47,373
Michael J. Dady, Brooklyn, N. Y.	.19	1.60	.007	1.87	1.80	4.90	1.00	.33	.35	.35	.37	.45	65.00	60.00	40.00	47,732
Murphy Bros., Clinton, Mass.	.22¾	.60	.005	1.75	1.75	6.00	.20	.20	.20	.20	.20	.20	17.00	10.00	34.50	48,349
Moulton & O'Mahoney, Boston, Mass.	.20	1.00	.01	2.20	1.25	6.00	.30	.20	.20	.20	.20	.25	50.00	45.00	40.00	49,223
T. W. Kinser & Sons, Waltham, Mass.	.23	1.20	.0075	1.00	.85	5.00	.25	.08	.08	.08	.12	.15	40.00	25.00	40.00	49,889
Auguste Saucier, South Framingham, Mass.	.22	1.12	.00⅞	1.75	1.00	5.50	.50	.10	.15	.20	.25	.25	30.00	15.00	30.00	50,336
Long & Little, Leominster, Mass.	.19½	1.00	.0075	3.50	1.50	5.00	1.00	.30	.30	.30	.40	.50	50.00	45.00	45.00	50,424
D. Cuozzo & Co., New York	.23	1.00	.005	2.00	1.25	5.00	.50	.30	.30	.35	.40	.40	30.00	25.00	30.00	50,548
S. Casparis, Columbus, O.	.18	1.50	.01	1.80	.80	12.50	.46	.20	.22	.25	.27	.30	55.00	30.00	36.00	50,582
H. P. Nawn and N. S. Brock, Boston, Mass.	.23½	1.20	.008	1.00	.75	5.50	1.00	.09	.09	.10	.11	.12	30.00	25.00	28.00	50,584
Winston & Co., Clinton, Mass.	.23	1.75	.008	1.25	1.00	6.25	.30	.10	.10	.10	.10	.10	50.00	22.00	29.00	52,357
John Donovan, Southboro, Mass.	.22	1.30	.01	2.25	1.25	6.00	.20	.15	.15	.25	.30	.30	35.00	30.00	35.00	53,401
Daniel O'Connell, Holyoke, Mass.	.23¾	1.10	.01	1.75	2.00	5.50	.30	.04	.05	.10	.10	.20	29.00	25.00	32.00	53,559
Devine & McBride, Clinton, Mass.	.22	1.30	.01	2.20	1.20	7.00	.15	.15	.15	.15	.15	.15	40.00	30.00	43.00	53,825
Foley & McClean, Boston, Mass.	.25	1.15	.01	1.25	1.00	6.00	.10	.08	.08	.09	.10	.11	40.00	25.00	30.00	54,525
E. M. Hines & Co., Rhinebeck, N. Y.	.27	.95	.01	1.00	.60	8.00	.16	.08	.10	.12	.13	.15	30.00	45.00	45.00	57,799
James McGraw, Boston, Mass.	.27	1.50	.0075	2.25	1.50	5.00	.50	.25	.40	.40	.50	.65	36.00	48.00	34.00	60,389
Thos. Gahan and Thos. Byrne, Chicago, Ill.	.30	1.00	.01	2.50	2.00	6.00	1.00	.50	.60	.75	1.25	3.00	20.00	20.00	30.00	67,214

SUPPLIES.—Reading, Pa.—The following contracts have been awarded for furnishing supplies and for general work in the department of highways and sewers for the year: Sharp paving sand, Geo. L. Tobias, 60 cts. a ton; block sand, A. Lincoln Frame, 50 cts. a ton; paving gravel, Gallagher & Brisse, 60 cts. a ton; spalls, Chas. H. Fisher, 85 cts. a ton; screenings, Fisher, 85 cts. a ton; North River bluestone, all awarded to Jacob S. Becker, coping stone, 16 ins. wide, 4 ins. thick, 35 cts. a lin. ft.; 18 ins. wide, 39 cts.; curbstone, 20 ins. wide, 4 ins. thick, 46 cts. a lin. ft.; 24 ins. wide and 6 ins. thick, 95 cts.; flagging for iron top box culverts, 2 ins. thick, 19 cts. a sq. ft.; brick, all awarded to Albert A. Gery, vitrified for gutters, crossings, etc., $11.50 a M.; for sewer construction, $6.00; Cast-iron work, all awarded to the Reading Scale & Machine Co., for iron top box culverts, 9-10 cts. a lb.; for sewer construction, 1 1-16 cts. a lb.; for cast-iron scrap 2-5 cts. a lb.; cement, both awarded to A. L. Roth, American Portland cement, $2.00 a bbl.; natural cement, $1.10 a bbl.; bags charged extra; Bordentown sand, Oliver S. Geiger, 90 cts. a ton; digging and paving new and repaving old sidewalks, Frank Gable, 78 cts. a sq. yd.; setting curb, all let to Fredrick Smith, new, 4 and 6-in. and old 4 and 6-in., 8 cts. a lin. ft.; digging and laying crossing stones, J. S. Becker, 63 cts. a lin. ft. S. S. Hoff, Cy. Engr.

RESERVOIR, ETC.—Middlesex Fells, Mass.—We are informed that the following bids were received by the Metropolitan Water Board, Boston, May 6, for constructing a high-service reservoir and gate chamber in Middlesex Fells, as advertised in Engineering News, and the contract was awarded T. W. Kinser & Sons:

Bids Received at Middlesex Fells, Mass., May 6, for Constructing a High-Service Reservoir.

Bidder.	Earth excavation, 100,000 cu. yds.	Loose rock excavation, 1,000 cu. yds.	Solid rock excavation, 3,500 cu. yds.	Port. conc. concrete masonry, 1,600 cu. yds.	Am. nat. hyd. cem. concrete masy., 3,500 cu. yds.	Plastering, Port. cem., 1,100 sq. yds.	Granite ashlar masonry, 40 cu. yds.	Granite dimen. stone masy., 10 cu. yds.	Slope paving, 160 cu. yds.	Lay'g 36-in. pipe, 1,200 lin. ft.	Laying 16 and 12-in. pipe, 00 lin. ft.	Total.
T. W. Kinser & Sons, Waltham, Mass.	$0.19	$0.50	$1.75	$5.50	$3.95	$0.25	$20.00	$75.00	$1.00	$1.00	$0.50	$51,465
Jos. D. Gennaro, Boston, Mass.	.275	.40	.90	5.00	3.40	.30	19.00	32.00	1.50	.80	.30	53,578
A. W. Bryne Const'n Co., Melrose, Mass.	.23	2.00	2.25	6.75	4.00	.40	16.00	20.00	1.50	.50	1.00	59,855
Moulton & O'Mahoney, Boston, Mass.	.27	.50	1.35	6.70	4.00	.67	20.00	50.00	5.50	1.00	.50	61,092
T. H. Riddle & Co., New York	.32	.60	1.00	6.20	4.10	.30	20.00	30.00	1.00	.90	.70	63,082
Long & Little, Leominster, Mass.	.38	.50	1.00	6.00	4.00	.30	17.00	30.00	3.00	2.00	1.00	69,850
C. E. Trumbull & Co., Boston, Mass.	.33	.50	2.00	6.75	4.50	.50	35.00	35.00	3.00	.75	.75	70,775
H. A. Hanscom & Co., W. Medford, Mass.	.34	.50	1.40	7.60	4.85	.55	20.00	55.00	2.00	.95	.70	71,992
H. P. Nawn and N. S. Brock, Boston	.375	.65	1.25	6.50	4.75	.60	20.00	40.00	2.00	1.00	.50	72,960
Michael J. Dady, Brooklyn, N. Y.	.43	.81	.95	4.65	3.85	.75	25.00	105.00	1.75	1.47	1.47	73,057
S. W. Frescoln, Reading, Pa.	.42	.60	1.70	6.00	3.90	.40	24.00	40.00	2.00	1.40	1.50	75,690
Jas. McGraw & Co., Boston, Mass.	.39	.80	1.75	7.40	4.75	.15	23.25	55.00	2.50	1.50	.75	78,280
McCusker Bros., Waltham, Mass.	.40	.50	1.75	6.25	5.00	.50	30.00	75.00	1.50	1.50	1.00	78,725
MacRitchie & Nichol, Chicago, Ill.	.45	.60	1.20	7.60	4.50	.50	10.00	40.00	6.00	1.80	1.00	82,240
T. Gahan and T. Byrne, Chicago, Ill.	.32	.60	1.50	8.50	7.00	2.00	10.00	15.00	2.50	3.00	1.00	82,760
R. M. Quigley & Co., St. Louis, Mo.	.49	5.00	1.50	5.00	3.70	.30	20.00	40.00	1.20	1.00	.40	83,146
The C. H. Eglee Co., Boston, Mass.	.67	.75	1.50	7.00	5.50	.20	25.00	50.00	2.25	1.50	1.50	107,420

RUBBLESTONE PAVING.—Reading, Pa.—The following contracts were let April 30 for rubblestone paving in certain streets, Samuel S. Hoff, Cy. Engr.: Doermann & Schumacher, Chestnut St., 2,250 sq. yds., 59 cts. a yd.; Windsor St., 3,400 yds., 62 cts. a yd.; Jacob S. Becker, Pear St., 1,400 sq. yds., 51.5 cts.; Douglas St., 2,550 yds. 62.5 cts.; Spring St., 4,300 yds., 61 cts.; Marion St., 3,100 yds., 64.5 cts.; Kretz & Hartman, 13th St., 1,950 yds., 55 cts.; 17½ St., 1,375 yds., 50 cts.; 17th St., 1,250 yds., 53 cts.; Wunder St., 1,250 yds., 54 cts.; 12th St., 1,250 yds., 53 cts.; Samuel Bobst, 16½ St., 1,375 sq. yds., 49 cts. H. H. Hammer, Cy. Clk.

BRICK SEWER.—Dayton, O.—We are informed that the following bids were received May 2 for constructing a brick sewer in the East Side; Frank M. Turner, Cy. Engr.:

Bids Received at Dayton, O., May 2, for Constructing a Brick Sewer.

Quantities.	Peter E. Lehman.	Ed. Ryan.	Chris. Poock.	Chas. Hosket.	John Munger & Co.	John W. Boren.	Greenvl. Const'n Co.	Henry Gantz.	E. M. Costello & Co.	E. M. Costello & Co. Shl brk.
72-in. 2-ring brk sewr 427 ft.	$2.70	$3.03	$3.48	$3.10	$3.40	$3.20	$4.20	$4.15	$2.80	$3.17
66-in. " " " 1,460 "	2.52	3.35	2.87	2.89	3.00	3.15	4.00	3.40	2.62	3.00
60-in. " " " 1,520 "	2.31	2.92	2.69	2.90	2.75	3.00	3.40	3.18	2.45	2.80
48-in. " " " 50 "	1.90	2.14	2.18	1.93	2.30	2.60	3.00	2.72	2.00	2.40
Manholes 9 each	15.00	15.00	15.00	15.00	14.00	11.50	12.00	18.00	17.00	17.00
Junction 1	25.00	80.00	61.00	80.00	150.00	82.50	225.00	170.00	85.00	90.00
Stone masonry 20 perches	4.00	3.00	4.00	2.75	3.00	5.00	12.00	4.50	3.75	3.75
Total	$8,678	$11,005	$10,150	$10,318	$10,463	$10,941	$14,524	$12,083	$9,158	$10,428

HYDRANTS, PIPE, ETC.—Lebanon, Pa.—The following bids were received May 2 for furnishing certain water department supplies, as advertised in Engineering News; Secy. Comrs., J. D. Kerr: Weimer Machine Works, Lebanon—Deliver 50 cast-iron water or valve boxes at 1½ cts. a lb.; John Stoeber, Lebanon—Erect fire hydrants for $4.75 each, will lay pipe at 68 cts. a ft.; Ludlow Valve Mfg. Co., Troy, N. Y.—Furnish 4-in. gate valves at $6.45 each, 6-in. at $10.70, and 8-in. at $15.80, valve boxes at $3 each; E. F. Kitson, Pottsville, Pa.—Place 51 fire hydrants for $114.75, lay 7,500 ft. 8-in. pipe and 400 ft. 8-in. pipe for $908.50; J. Thompson & Co., Philadelphia—Furnish 4-in. gate valves at $5.95, 6-in. at $8.90, 8-in. at $14.25, 30 cast-iron covers at $2.50 each, special castings at 1¾ cts. a lb., hemp gasket (100 lbs.) at 4¾ cts. a lb., pig lead (9,150 lbs.) at 4.3 cts. a lb.; T. C. Gill & Co., Philadelphia—Pig lead at 4.24 cts. a lb., and hemp packing for 4.90 cts. a lb.; The Jackson & Woodin Mfg. Co., Berwick, Pa.—Furnish 6 and 8-in. pipe at $18.80 a gross ton of 2,240 lbs., special castings at 1¾ cts. a lb.; So. Pittsburg (Tenn.) Pipe Works.—6 and 8-in. pipe at $17.10 a ton of 2,000 lbs., special castings 1¾ cts. a lb.; F. B. Hawkins & Co.—Packing 3½ cts. a lb., valve boxes $2.50 each, gate valves (4-in.) $5, 6-in. $8, 8-in. $14; Lehigh Valley Brass Works, Bethlehem, Pa.—Valves—4-in. $6.50, 6-in. $10.95, 8-in. $15.95; Reading Foundry Co., Reading—6 and 8-in. pipe at $18.14 a gross ton, special castings 2 cts. a lb., gate valves—4-in. $7, 6-in. $11, 8-in. $17, valve boxes—50 at 1½ cts. a lb.; Adam Funck, Lebanon—Place 51 hydrants, $990; The McNeal Pipe & Foundry Co., Philadelphia—6 and 8-in. pipe $18.70 a ton, special castings 1¾ cts. a lb.; Williamsport Valve & Hydrant Co., Williamsport—4-in. valves $5.90, 6-in. $9, 8-in. $14.50, valve boxes $2.25; Lebanon Boiler, Foundry & Machine Co., Lebanon—Valve boxes (50) at $23 a ton of 2,000 lbs.; Donaldson Iron Co., Emaus, Pa.—6 and 8-in. pipe $17.90 a ton of 2,240 lbs., special castings 1¾ cts. a lb.; Howard-Harrison Iron Co. Bessemer, Ala.—6 and 8-in. pipe, $17.15 a ton of 2,000 lbs.; Humphreys & Rowe, Ashland, Pa.—Place 51 hydrants $1.70 each, lay 7,900 ft. 8-in. pipe 11½ cts. a ft.; L. H. Focht, Reading, Pa.—Place 51 hydrants $382, furnish 6-in. pipe at $18.14 a gross ton, special castings 2 cts. a lb., pig lead 4½ cts. a lb., 8-in. pipe $18.14 a gross ton, 50 valve boxes 1½ cts. a lb., gate valves—4-in. $7, 6-in. $11, 8-in. $17.

"ABOUT 100 BIDS."

The Nazareth, Pa., "Item," of April 22, says:

The Hellertown town council had about 100 bids for the construction of its new water-works. Bids were received from all parts of the United States.

The proposal advertisement for this work was published in Engineering News of March 31 and April 7. All contract work should be advertised in Engineering News if extensive competition from reliable contractors and manufacturers is what is desired.

CURB STONE.

PEORIA, ILL., May 4, 1898.

Sealed bids will be received at the office of the Commissioner of Public Works of the City of Peoria, Ill., until two (2) o'clock of Wednesday, May 18, 1898, for furnishing about 7,000 lineal feet of curbstone to the City of Peoria, according to the specifications on file in the office of the Department of Public Works of said city.

Proposals must be made out upon blanks furnished by said Department, and be accompanied with Two Hundred Dollars ($200.00)) in money, or certified check for same amount upon some responsible bank doing business in the City of Peoria, and made payable to the order of M. W. Manning, Commissioner of Public Works. For specifications, blank forms of proposal, and any information, address the City Engineer. M. W. MANNING,

Commissioner of Public Works.

A. D. THOMPSON, City Engineer. 19-1t

BRICK PAVING.

ITHACA, N. Y.

$30,000 to be expended this year. For specifications apply to

A. W. FORCE, Secretary,

18-2t Ithaca, N. Y.

SEWERS.

CAMBRIDGE, OHIO.

Sealed proposals will be received at the office of the City Clerk of the City of Cambridge, Ohio, until 12 o'clock, m., June 4th, 1898, for furnishing all material and labor for and constructing part of a sanitary system of sewerage as follows:

Wheeling avenue, from Twelfth to Fourth street.

Steubenville avenue, from Eighth to Fourth street.

Fourth street, from Wheeling avenue to point 1,225 feet north; and

Trunk sewer, from Fourth street to Wills Creek, 3,000 feet.

The following are the approximate amounts and sizes of pipe, to wit:

2,700 feet—18-inch vitrified sewer pipe.
1,500 feet—15-inch vitrified sewer pipe.
275 feet—12-inch vitrified sewer pipe.
1,650 feet—10-inch vitrified sewer pipe.
3,770 feet— 8-inch vitrified sewer pipe.
7,248 feet— 6-inch vitrified sewer pipe slants,
18 tons—18-inch cast-iron pipe,
500 cubic yards of rock excavation.

Together with 21 manholes, 1 lamp hole, 2 flush tanks, and all appurtenances, accompanying, as shown by the plans, profiles, specifications and other details which are on file in the office of the City Engineer of said city.

Each proposal must be made upon printed blanks furnished by the Engineer of said city, and accompanied by a certified check of $1,000.00, drawn in favor of T. R. Deselm, City Clerk, as liquidated damages, conditioned that the bidder will enter into contract within 10 days if awarded the work.

The City Council reserves the right to reject any and all bids, or to accept the proposal deemed by them to be for the best interests of the city.

Plans, profiles and detail drawings may be seen, and specifications, forms of proposal, contract, etc., may be obtained at the office of the City Engineer.

T. R. DESELM, City Clerk.
O. M. HOGE, City Engineer.
A. L. WHITE, Consulting Engineer.

19-1t

STEEL BRIDGE.

FRANKLIN, KY.

Notice is hereby given that up to 12 o'clock, noon, on Friday, June 7, 1898, the Fiscal Court of the County of Simpson will receive sealed bids, accompanied with the necessary plans and specifications, for the erection of a steel bridge, with twelve-foot roadway (for exact location see bridge committee.) The contract for building said bridge will be let to the lowest and best responsible bidder, and any and all bids may be rejected. A certified check of $500, made payable to the county judge for the use and benefit of Simpson county, must accompany each bid as evidence of good faith on part of bidder.. All bids must be addressed to G. W. WHITESIDES, County Judge, Franklin, Ky. 19-1t

BRICK PAVING.

CAMBRIDGE, OHIO.

Sealed proposals will be received at the office of the City Clerk of the City of Cambridge, Ohio, until 12 o'clock, m., June 4th, 1898, for grading, curbing and paving Wheeling avenue, in said city, from the east line of Fourth street to the west line of Twelfth street, in accordance with the plans, profiles and specifications on file in the office of City Civil Engineer of said city.

The amounts to be used in the comparison of proposals are approximately as follows:

Excavation—8,749 cubic yards.
Vitrified brick paving—21,483 square yards.
Curbing, straight—7,288 lineal feet.
Curbing, 2½ feet radius—126 lineal feet.
Tiling, 4-inch—1,800 lineal feet.

Each proposal must be made on blank forms to be furnished by the Engineer of said city, and must be accompanied by a certified check for $1,000.00, drawn ni favor of T. R. Deselm, City Clerk, as liquidated damages, conditioned that the bidder will enter into a contract within 10 days if awarded the work.

The City Council reserves the right to reject any and all bids, or to accept the proposal deemed by them to be for the best interests of the city.

Plans and profiles may be seen and copies of the specifications, blank proposals, etc., obtained at the office of the City Engineer.

T. R. DESELM, City Clerk.
O. M. HOGE, City Engineer. 19-1t

Nearly Every Prominent Contractor and Manufacturer of Contractors' Supplies READS ENGINEERING NEWS

AVAIL YOURSELF OF THIS PAPER WHEN BIDS ARE WANTED FOR CONSTRUCTION OR FOR FURNISHING SUPPLIES.